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## EC DECLARATION OF CONFORMITY

We hereby declare that the devices described below comply with those provisions which apply to them of the European Directive 98/79/EC 'on *in vitro* diagnostic medical devices', and are placed on the European market by Mast Group UK through our appointed EC Authorised Representative Mast Diagnostica GmbH, Feldstrasse 20, 23858 Reinfeld, Germany.

This declaration is valid for the IVD medical devices described below on or after the date hereof, and which bear the CE mark. It is also valid for all IVD medical devices described below which are manufactured by Mast and placed on the market on or after the date hereof by third parties with our consent and which bear the CE mark. All supporting documents relating to this declaration are retained at the manufacturer's premises.

Product code	Product description	IVD Directive classification	EDMS code
Various	<b>MAST® ID identification test paper products</b> - discs, rings and strips. Products for presumptive identification of biochemical reactions or detection of a specific reaction profiles in microbes.	Self certification Annex III excluding section 6	1402020100, 1402020200, 1402020400, 1402020800, 1402029000. (codes registered - 24/03/2003)

Standards applied: EN ISO 13485:2016, ISO 9001:2015, EN ISO 14971:2019, EN ISO 18113-1:2011, EN ISO 18113-2:2011, EN ISO 15223-1:2016, EN ISO 15223-2:2010.

Declaration made by ..... Date: 22 March 2022

D N Hogben, Quality Assurance and Regulatory Affairs Manager – Mast Group Ltd.

Document valid till: 26<sup>th</sup> May 2025



European In Vitro Diagnostic Medical Directive 98/79/EC, Annex III – General IVD  
 EC DECLARATION OF CONFORMITY - Self-Certification (Annex III excluding section 6) – General IVD

Annex – list of MAST® ID identification test paper products

Serial No.	Device ID Number	Product Description	Pack Size	Brand Name	Intended purpose of the medical device type
1	D40C	Bacitracin Discs 0.04 units	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Group A streptococci.
2	D40	Bacitracin Discs 0.04 units	100 Discs	MASTDISCS® ID	For presumptive Identification of Group A streptococci.
3	D41C	Bacitracin Discs 0.1 Unit	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Group A streptococci.
4	D41	Bacitracin Discs 0.1 Unit	100 Discs	MASTDISCS® ID	For presumptive Identification of Group A streptococci.
5	D42C	Optochin Discs 5ug	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Strep. pneumoniae.
6	D42	Optochin Discs 5ug	100 Discs	MASTDISCS® ID	For presumptive Identification of Strep. pneumoniae.
7	D43C	X Factor Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
8	D43	X Factor Discs	100 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
9	D44C	V Factor Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
10	D44	V Factor Discs	100 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
11	D45C	X+V Factor Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
12	D45	X+V Factor Discs	100 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.



Serial No.	Device ID Number	Product Description	Pack Size	Brand Name	Intended purpose of the medical device type
13	D46C	Metronidazole Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Gardnerella vaginalis.
14	D46	Metronidazole Discs 50ug	100 Discs	MASTDISCS® ID	For presumptive Identification of Gardnerella vaginalis.
15	D47C	Sulphathiazole Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Gardnerella vaginalis.
16	D47	Sulphathiazole Discs 1ug	100 Discs	MASTDISCS® ID	For presumptive Identification of Gardnerella vaginalis.
17	D48	Lysostaphin Discs 20ug	50 Discs	MASTDISCS® ID	For presumptive Identification of Staphylococci/micrococci.
18	D49	ALA Discs 75ug	100 Discs	MASTDISCS® ID	For presumptive Identification of Haemophilus spp.
19	D51C	Nitrate Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Nitrate Reductase in anaerobes.
20	D52C	Extended Spectrum β Lactamase Set	6 x 50 Discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
21	D55	SPS Discs 1000ug	100 Discs	MASTDISCS® ID	For presumptive Identification of P. anaerobius
22	D57C	Oxidase Discs	5 x 50 Discs	MASTDISCS® ID	For presumptive Identification of Nitrate Reductase in Pseudomonas spp.
23	D57	Oxidase Discs	100 Discs	MASTDISCS® ID	For presumptive Identification of Pseudomonas spp.
24	D59	Nitrocefin Discs (B)	50 Discs	MASTDISCS® ID	For presumptive Identification of Beta lactamase activity.
25	D62C	Cefotaxime 30 & Cefotaxime 30/Clavulanic Acid 10	6 x 50 Discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
26	D63C	Cefepime 30 & Cefepime 30/Clavulanic Acid 10	6 x 50 Discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.in Enterobacteriales.
27	D64C	Ceftazidime 30 & Ceftazidime 30/Clavulanic Acid 10	6 x 50 Discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
28	D66C	Cefpodoxime 10 & Cefpodoxime 10/Clavulanic Acid 1	6 x 50 Discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.



Serial No.	Device ID	Product Description	Pack Size	Brand Name	Intended purpose of the medical device type
29	D67C	Extended Spectrum $\beta$ Lactamase Set (CPD10)	6 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
30	D68C	AmpC & ESBL Detection Set	4 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
31	D69C	AmpC Detection Set	3 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
32	D70C	Carbapenemase Detection Set	4 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
33	D71C	CAT ID - Carbapenemase Activity Test (CAT) discs	5 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
34	D72C	MastDiscs® Combi AmpC, ESBL and Carbapenemase Detection Disc Set	6 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
35	D73C	Carba Plus. For the detection of carbapenemase and OXA-48 enzyme production in Enterobacteriaceae.	5 X 50 discs	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
36	D74	MastDiscs® ID Indirect Carbapenemase Test (ICT)	25 Tests	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
37	D76C	MastDiscs® Combi ESBL Detection Set	50 Tests	MASTDISCS® Combi	Combination disc sets for the detection of antibiotic resistance.
38	STOX	Oxacillin Strips	50 Strips	MAST® ID	Oxacillin Strips for the detection of MRSA- Antibiotic Susceptibility Testing.
39	ETO/1	MAST® ID Intralactam Strips	25 strips	MAST® ID	A strip test for the rapid detection of $\beta$ -lactamase.
40	ETO4	MAST® ID Oxidase Strips - for the performance of the oxidase reaction	25 strips	MAST® ID	A strip test for the rapid detection of cytochrome oxidase enzyme (Oxidase) in bacteria.
41	ETO7	MAST® ID PYR Strips - for the detection of pyrrolidonyl amino peptidase activity	25 strips	MAST-ID	A rapid strip test for the detection of pyrrolidonyl amino peptidase activity in streptococci and enterococci.
42	MIID/XV	MAST® ID XV Mirror ring. MASTRING™ containing X+V factor tips	50 rings	ID-MASTRING	For the identification of haemophilus spp.
43	MID8	MASTRING containing Erythromycin (60ug), Rifampicin (15ug), Colistin Sulphate (10ug), Penicillin G 2 units, Kanamycin (1000ug), Vancomycin (5ug)	50 rings	ID-MASTRING	For the presumptive identification of Gram negative non-sporing anaerobes.



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Product code	Product description	IVD Directive classification	EDMS code
Various (DM---)	<b>MAST® Dehydrated culture media –</b> Powdered product formulations for use in microbial culture media.	Self certification Annex III excluding section 6	1401010100, 1401010200, 1403010100 (Codes registered - 24/03/2003)  GMDN codes 30630, 30660

Standards applied: EN ISO 13485:2016, ISO 9001:2015, EN ISO 14971:2019, EN ISO 18113-1:2011, EN ISO 18113-2:2011, EN ISO 15223-1:2016, EN ISO 15223-2:2010.

Declaration made by Christine Winstanley Date: 26 May 2022

Christine Winstanley, Quality Assurance and Regulatory Affairs Manager – Mast Group Ltd.

Document valid till: 26th May 2025



European In Vitro Diagnostic Medical Directive 98/79/EC, Annex III – General IVD

EC DECLARATION OF CONFORMITY- Self-Certification (Annex III excluding section 6) – General IVD

Product Names: Mast Dehydrated Culture Media

Serial No.	Device ID Number	Product Description	Pack Size	EDMS/GMDN code	Brand Name	Intended purpose of the medical device type
1	DM095D	Baird-Parker Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
2	DM494D	Buffered Peptone Water	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
3	DM494E	Buffered Peptone Water	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
4	DM269D	Buffered Rappaport Vassiliadis Broth	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
5	DM253D	Burkholderia cepacia Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
6	DM110A	C.L.E.D. Medium	10x200ml sachets	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
7	DM110B	C.L.E.D. Medium	10x500ml sachets	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
8	DM110D	C.L.E.D. Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
9	DM111D	C.L.E.D. with Andrade's Indicator	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
10	DM111E	C.L.E.D. with Andrade's Indicator	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
11	DM119E	Cooked Meat Granules	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media



Serial No.	Device ID Number	Product Description	Pack Size	EMDS/GMDN code	Brand Name	Intended purpose of the medical device type
12	DM130D	D.C.A. (Hynes)	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
13	DM215B	D.S.T. Agar (Sulphonamide Antagonist Free)	10x 500ml	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
14	DM215D	D.S.T. Agar (Sulphonamide Antagonist Free)	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
15	DM132D	DNase Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
16	DM133D	Eosin Methylene Blue Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
17	DM136D	G.C. Agar Base	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
18	DM134D	Hektoen Enteric Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
19	DM134E	Hektoen Enteric Agar	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
20	DM146D	Kimmig Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
21	DM137D	Kligler's Iron Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
22	DM138-1D	Kohn's No 1 Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
23	DM258D	Legionella BCYE Agar Base	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
24	DM440D	M.S.R.V. (Salmonella) Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
25	DM140D	MacConkey Agar (without salt)	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
26	DM140E	MacConkey Agar (without salt)	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media



Serial No.	Device ID Number	Product Description	Pack Size	EMDS/GMDN code	Brand Name	Intended purpose of the medical device type
27	DM141D	MacConkey Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
28	DM141E	MacConkey Agar	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
29	DM142D	MacConkey Agar No.2	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
30	DM143D	MacConkey Agar No.3	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
31	DM143E	MacConkey Agar No.3	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
32	DM150D	MacConkey Broth	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
33	DM160D	Mannitol Salt Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
34	DM170B	Mueller Hinton Agar	10x200ml sachets	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
35	DM170D	Mueller Hinton Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
36	DM170E	Mueller Hinton Agar	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
37	DM171D	Mueller Hinton Broth	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
38	DM171N	Mueller Hinton Broth	20Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
39	DM195D	Plate Count Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
40	DM251D	Preston Blood Free Campylobacter Agar Base	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
41	DM205D	S.S. Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media



Serial No.	Device ID Number	Product Description	Pack Size	EMDS/GMDN Code	Brand Name	Intended purpose of the medical device type
42	DM205E	S.S. Agar	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
43	DM211D	Simmons Citrate Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
44	DM491D	Sorbitol MacConkey Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
45	DM218D	T.C.B.S. Cholera Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
46	D401D	T.C.B.S. Cholera Medium	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
47	DM219S	Tetrathionate Broth	460g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
48	DM221D	Thioglycollate Broth USP	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
49	DM224D	Triple Sugar Iron Agar (TSI)	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
50	DM228D	Urea Agar Base	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
51	DM228S	Urea Solution (40% v/v)	10 x10ml	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
52	DM480D	Violet Red Bile (Lactose) Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
53	DM235D	Wilkins Chalgren Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
54	DM230D	X.L.D. Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
55	DM230E	X.L.D. Agar	5Kg	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media
56	DM496D	Yeast Extract Agar	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media

IVD solutions through partnership



**Mast  
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Serial No.	Device ID Number	Product Description	Pack Size	EMDS/GMDN Code	Brand Name	Intended purpose of the medical device type
57	DM252D	Yersinia Agar Base	500g	EDMS - 1401010100 GMDN - 30630	Dehydrated culture media and accessories	Cultural Media & Supplements - Clinical & Industrial Culture Media



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## MAST® CARBA PAcE

### Intended Use

**PACE-ID.** For the rapid detection of carbapenemase producing Enterobacterales, *Pseudomonas*, OXA 48 and 23-like enzyme production in *Acinetobacter*.

FOR IN VITRO DIAGNOSTIC USE ONLY

### Contents

- **Vial PEL.** Freeze dried pellet\* - 4 vials containing inhibitors and lysis components, each designed for 12 tests.
- **Vial RB.** Reconstitution buffer\* - 4 vials containing chromogenic indicator resuspension buffer, each sufficient for 12 tests.
- Plastic 0.5 ml tubes, sufficient for 48 tests.

### Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening. Once reconstituted, test solution stored at 2 to 8°C, must be used within 4 weeks.

### Precautions

For *in vitro* diagnostic use only. Observe approved biohazard and aseptic techniques. To be used by only trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to product safety data sheets.

### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST Group Ltd. culture media, table top vortexes, pipettes, incinerators and incubators, etc.

### Procedure

1. Reconstitute the pellet by tipping the entire contents of vial RB into vial PEL.
2. Allow the pellet to fully dissolve at room temperature for 1 minute and mix contents by gently vortexing for 10 seconds. Reconstituted solution should be yellow, if the solution is any other colour do not use.
3. Dispense 250µl of reconstituted solution into the tubes provided. One tube per test.
4. Using a pure, fresh culture of the test organism, take an approximate 1 to 5µl loopful of organism, and add to the tube containing test solution. Mix well by vortexing for 20 seconds.

**Note: to obtain distinct results, ensure that the bacterial resuspension is similar to the turbidity of a 3.0 to 3.5 McFarland standard; Approx. 10<sup>9</sup> CFU/ml.**

5. Incubate at 35±1°C for 10 minutes.
6. Record the colour of the test solution immediately or up to 20 minutes after incubation.

Please refer to corresponding steps on the image page.

### Interpretation of results

If a colour change is recorded; from yellow to orange/red, record the organism as demonstrating carbapenemase activity.

If no colour change is recorded; solution remains yellow, record the organism as negative for carbapenemase activity.

### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and another to demonstrate a negative reaction. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organism	Result
<i>Acinetobacter baumannii</i> NCTC 13301	Orange/Red Carbapenemase positive
<i>Pseudomonas aeruginosa</i> NCTC 13437	Orange/Red Carbapenemase positive
<i>Acinetobacter lwoffii</i> ATCC® 15309	Remains Yellow Carbapenemase negative
<i>Pseudomonas aeruginosa</i> ATCC® 25668	Remains Yellow Carbapenemase negative
<i>Klebsiella pneumoniae</i> NCTC 13438	Orange/Red Carbapenemase positive

### Limitations

1. Colonies isolated from indicator media are not recommended.
2. This product only detects the presence of a carbapenemase, differentiation can be carried out by using a suitable genotypic or phenotypic test (for example MASTDISCS® *Combi Carba Plus*; D73C).
3. Some GES-type carbapenemases might be difficult to detect.
4. To avoid potentially erroneous results, ensure that equipment used for testing is free of contamination.
5. Test results must be recorded within 20 minutes following the initial 10 minute incubation.
6. Results obtained with this kit must be considered alongside other clinically relevant data when diagnosing an infection.

### References

Bibliography available on request.

### Acknowledgement

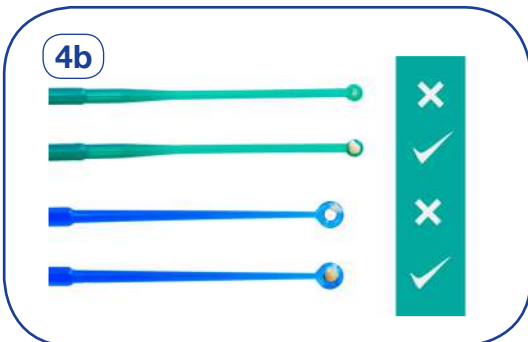
HMRZ compound used in this product was developed by Dr. Hideaki Hanaki of Kitasato, Institute, Japan.



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# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

Mast Group Ltd  
Mast House, Derby Road  
Bootle  
Liverpool  
L20 1EA  
United Kingdom

Holds Certificate Number:

FM 724380

and operates a Quality Management System which complies with the requirements of ISO 9001:2015 for the following scope:

**Design, manufacture and supply of in-vitro diagnostic devices and associated services.**

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 1994-06-14

Latest Revision Date: 2024-03-05

Effective Date: 2024-06-01

Expiry Date: 2027-05-31

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...making excellence a habit.™

Certificate No: FM 724380

Location	Registered Activities
Mast Group Ltd Mast House, Derby Road Bootle Liverpool L20 1EA United Kingdom	Design, manufacture and supply of in-vitro diagnostic devices and associated services.
Mast Group Ltd Atlantic House, Derby Road Bootle Liverpool L20 1EA United Kingdom	Manufacturing, QC and warehousing of IVD kits and reagents, bacteriological media and other kits and reagents for the life sciences industry.

Original Registration Date: 1994-06-14

Latest Revision Date: 2024-03-05

Effective Date: 2024-06-01

Expiry Date: 2027-05-31

Page: 2 of 2

This certificate was issued electronically and remains the property of BSI and is bound by the conditions of contract.  
An electronic certificate can be authenticated [online](#).  
Printed copies can be validated at [www.bsigroup.com/ClientDirectory](http://www.bsigroup.com/ClientDirectory)

Information and Contact: BSI, Kitemark Court, Davy Avenue, Knowlhill, Milton Keynes MK5 8PP. Tel: + 44 345 080 9000  
BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A Member of the BSI Group of Companies.

# Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 13485:2016 & EN ISO 13485:2016

This is to certify that:

**Mast Group Ltd**  
Mast House, Derby Road  
Bootle  
Liverpool  
L20 1EA  
United Kingdom

Holds Certificate Number:

MD 724379

and operates a Quality Management System which complies with the requirements of ISO 13485:2016 & EN ISO 13485:2016 for the following scope:

Design, development, manufacture, installation, service and distribution of in-vitro diagnostic reagents and instruments for clinical microbiology and molecular biology and bacteriological media.

For and on behalf of BSI:

Graeme Tunbridge, Senior Vice President Global Regulatory & Quality

Original Registration Date: 2020-10-07

Latest Revision Date: 2024-05-09

Effective Date: 2024-06-01

Expiry Date: 2027-05-31



Page: 1 of 2

...making excellence a habit.™

Certificate No: MD 724379

Location	Registered Activities
Mast Group Ltd Mast House, Derby Road Bootle Liverpool L20 1EA United Kingdom	Design, manufacture, distribution and customer services of in-vitro diagnostic devices for clinical microbiology, molecular biology, and bacteriological media.
Mast Group Ltd Atlantic House, Derby Road Bootle Liverpool L20 1EA United Kingdom	Manufacture, instrument support, storage and distribution of in-vitro diagnostic devices for clinical microbiology, molecular biology and bacteriological media. Installation and servicing of in-vitro diagnostic instruments.
Mast Group Ltd Unit 107, Tenth Avenue, Zone three, Deeside Industrial Park, Deeside Flintshire CH5 2UA United Kingdom	Design, manufacture, instrument support, storage and distribution of in-vitro diagnostic devices for clinical microbiology, molecular biology and bacteriological media. Installation and servicing of in-vitro diagnostic instruments.



Original Registration Date: 2020-10-07

Latest Revision Date: 2024-05-09

Effective Date: 2024-06-01

Expiry Date: 2027-05-31

Page: 2 of 2

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BSI Assurance UK Limited, registered in England under number 7805321 at 389 Chiswick High Road, London W4 4AL, UK.  
A Member of the BSI Group of Companies.



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Fax: + 33 (0) 3 22 80 99 22  
email: info@mast-diagnostic.fr  
Web: www.mast-group.com



## Mueller Hinton Agar

### DM170

#### Intended Use

A standardised medium for susceptibility testing.

#### Contents

See pack label.

#### Formulation\*

Material:	Concentration in medium:
Casein hydrolysate	17.5g/litre
Beef infusion from 300g	2.0g/litre
Starch	1.5g/litre
Agar	17.0g/litre
Final pH at 25°C: 7.3 ± 0.1	

#### Storage and shelf life

All dehydrated culture media containers should be kept tightly closed and stored in a dry place at 10 to 25°C until the expiry date shown on the pack label.

#### Precautions

For *in vitro* diagnostic use only. Observe approved hazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet (available on request or via MAST® website).

#### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® selective supplements, swabs, applicator sticks, incinerators and incubators, etc., as well as serological and biochemical reagents and additives such as blood.

#### Procedure

1. Refer to pack label for quantities and volumes required. Prepare MAST® Mueller Hinton Agar (DM170D) by suspending the powder in distilled or deionised water. For sachet packs, dissolve the entire contents of the sachet in the volume shown on the label.
2. Autoclave at 121°C (15 p.s.i.) for 15 minutes.
3. If required cool to 50 to 55°C and hold at this temperature in a water bath. If required add 5 to 7% sterile defibrinated blood to enhance the growth of fastidious organisms or antibiotics (MAST® ADATAB) for dilution susceptibility test methods.
4. Alternative growth supplements can be used.
5. Pour culture plates (25ml per plate) and allow to set.
6. Prepared culture plates may be used immediately or stored in plastic bags at 2 to 8°C for up to one week before use.

7. Antimicrobial Susceptibility Testing should be performed in accordance with standards set down by regulatory bodies such as CLSI® (Clinical and Laboratory Standards Institute) and EUCAST (The European Committee on Antimicrobial Susceptibility Testing).

#### Interpretation of results

After incubation record diameter of zones of inhibition or Minimum Inhibitory Concentration (MIC). Interpret results as sensitive, intermediate or resistant according to the criteria laid down in the method of use.

#### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate expected performance. Do not use the product if the result with the control organism is incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain.

Test Organisms	
<i>Enterococcus faecalis</i> ATCC® 29212	Growth and correct susceptibility pattern
<i>Escherichia coli</i> ATCC® 25922	Growth and correct susceptibility pattern
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Growth and correct susceptibility pattern
<i>Staphylococcus aureus</i> ATCC® 25923	Growth and correct susceptibility pattern

#### References

Bibliography available on request.

## MASTDISCS® *Combi* Extended Spectrum Beta-Lactamase (ESβL) Detection Set (CPD10)

### D67C

#### Intended use

For the detection of extended spectrum beta-lactamases (ESβLs) in Enterobacterales.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents and Formulation\*

3 paired sets of cartridges per pack, each cartridge containing approximately 50 discs.

Set	Code	Description
Set 1	CAZ30	Ceftazidime 30 µg discs
	CAZCV	Ceftazidime 30 µg + clavulanic acid 10 µg discs
Set 2	CTX30	Cefotaxime 30 µg discs
	CTXCV	Cefotaxime 30 µg + clavulanic acid 10 µg discs
Set 3	CPD10	Cefpodoxime 10 µg discs
	CPDCV	Cefpodoxime 10 µg + clavulanic acid 1 µg discs

#### Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening.

#### Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

#### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, Mueller-Hinton agar, swabs, forceps, callipers etc., as well as an incubator capable of maintaining 35 ± 2°C.

#### Procedure

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a 0.5 McFarland standard.
- Using a sterile swab spread the suspension uniformly across the surface of a single Mueller Hinton Agar plate in accordance with the Clinical and Laboratory Standards Institute (CLSI) procedure.
- Using a MAST® DISCMASTER Dispenser, or alternatively a sterile needle or forceps, place one of each type of disc onto the plate of inoculated medium, ensuring sufficient space between the discs to allow formation of clearly defined zones of inhibition.

- Incubate at 35 ± 2°C for 17 ± 1 hours.
- Measure and record the diameter of any zones of inhibition, to the nearest whole millimetre. Discs showing no zone of inhibition should be recorded as 6 mm.

#### Interpretation of results

Compare the zone of inhibition for each cephalosporin alone and when in combination with clavulanic acid. An increase in zone diameter of ≥5 mm in the presence of clavulanic acid for any or all of the sets indicates the presence of ESβL in the test organism.

#### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Zones of inhibition obtained using the combination disc with clavulanic acid and corresponding cephalosporin only disc against ESβL-negative control organism *E. coli* ATCC® 25922 should be equal or show no greater difference in diameter than ±2 mm. Any greater difference implies malfunction or deterioration. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain:

Test Organism	Result
<i>Escherichia coli</i> NCTC 13351	Positive
<i>Escherichia coli</i> NCTC 13352	Positive
<i>Escherichia coli</i> NCTC 13353	Positive
<i>Klebsiella pneumoniae</i> ATCC® 700603	Positive
<i>Escherichia coli</i> ATCC® 25922	Negative

#### Limitations

D67C is not suitable for testing *Pseudomonas* spp. or *Acinetobacter* spp. To avoid potentially erroneous results do not mix cartridges from different batches and ensure all discs in the set are tested on the same plate.

#### References

Bibliography available on request.

## MASTDISCS® *Combi* AmpC Detection Set

### D69C

#### Intended use

For the detection of AmpC  $\beta$ -lactamase enzyme production in Enterobacteriales.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents and Formulation\*

3 cartridges per pack, each cartridge containing approximately 50 discs.

**Cartridge A** Cefpodoxime 10  $\mu$ g + AmpC inducer

**Cartridge B** Cefpodoxime 10  $\mu$ g + AmpC inducer + ES $\beta$ L inhibitor

**Cartridge C** Cefpodoxime 10  $\mu$ g + AmpC inducer + ES $\beta$ L inhibitor + AmpC inhibitors

#### Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening.

#### Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

#### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, Mueller-Hinton agar, swabs, forceps, callipers etc., as well as an incubator capable of maintaining 35  $\pm$  1°C.

#### Procedure

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a 0.5 McFarland standard in physiological saline.
- Using a sterile swab, spread the suspension uniformly across the surface of a single Mueller Hinton Agar plate in accordance with the European Committee on Antimicrobial Susceptibility Testing (EUCAST) procedure.
- Using a MAST® DISCMASTER Dispenser, or alternatively a sterile needle or forceps, place one of each disc onto the plate of inoculated medium, ensuring sufficient space between the discs to allow formation of clearly defined zones of inhibition.
- Incubate at 35  $\pm$  1°C for 18  $\pm$  2 hours.
- Measure and record the diameter of any zones of inhibition, to the nearest whole millimetre. Discs showing no zone of inhibition should be recorded as 6 mm.

#### Interpretation of results

Interpret results by comparing inhibition zone diameters in the sequence described below:

**Step 1** - Compare the zone of inhibition of the cefpodoxime plus AmpC inducer disc (**A**) to the zones of inhibition of each of the cefpodoxime plus inducer and inhibitor discs (**B**, and **C**).

If all zones are within 3 mm of each other, record the organism as negative for AmpC production.

**Step 2** - Subtract **A** from **C**, **A** from **B** and **B** from **C**.

If **C** – **A** and **C** – **B** is  $\geq$ 5 mm the organism is demonstrating AmpC activity. This should be considered as a positive result

If **C** – **A** and **B** – **A** is  $\geq$ 5 mm and zones of Discs **B** and **C** have a maximum difference of 4 mm then the organism may be demonstrating another resistance mechanism.

#### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Zones of inhibition obtained against a negative control organism *E. coli* ATCC® 25922, should be equal or show no greater difference in diameter than  $\pm$ 3 mm. Any greater difference implies malfunction or deterioration. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain:

Test Organism	Result
<i>Escherichia coli</i> ATCC® 25922	Negative
<i>Escherichia coli</i> DSMZ 22316 (Plasmid AmpC)	Positive
<i>Enterobacter cloacae</i> NCTC 13406 (Derepressed AmpC)	Positive
<i>Enterobacter cloacae</i> NCTC 13405 (Inducible AmpC)	Positive

#### Limitations

D69C is not suitable for use with *Pseudomonas* spp. or *Acinetobacter* spp. To avoid potentially erroneous results do not mix cartridges from different batches of D69C and ensure all discs in the set are tested on the same plate.

The formulation is designed to detect all types of AmpC production. The ES $\beta$ L inhibitor is present to prevent this enzyme affecting results when an isolate contains both AmpC and ES $\beta$ L enzymes. Although ES $\beta$ L inhibitor is contained in discs B and C, this product **cannot** be used for ESBL detection.

#### References

Bibliography is available on request.



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Web: www.mast-group.com



**Mast  
Group**

## MASTDISCS® *Combi* *Carba plus*

### D73C

#### Intended use

For the detection of carbapenemase and OXA-48 enzyme production in Enterobacteriales.

FOR IN VITRO DIAGNOSTIC USE ONLY

#### Contents and Formulation\*

5 cartridges per pack, each cartridge containing approximately 50 discs:

<b>Cartridge A</b>	Penem
<b>Cartridge B</b>	Penem + MβL inhibitor
<b>Cartridge C</b>	Penem + KPC inhibitor
<b>Cartridge D</b>	Penem + AmpC inhibitor
<b>Cartridge E</b>	Temocillin + MβL inhibitor

#### Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening.

#### Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

#### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, Mueller-Hinton agar, swabs, forceps, callipers, etc., as well as an incubator capable of maintaining 35 ± 1°C.

#### Procedure

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a 0.5 McFarland standard in physiological saline.
- Using a sterile swab, spread the suspension uniformly across the surface of a single Mueller Hinton Agar plate in accordance with the European Committee on Antimicrobial Susceptibility Testing (EUCAST) procedure.
- Using a MAST® DISCMASTER Dispenser, or alternatively a sterile needle or forceps, place one of each disc on to the plate of inoculated medium, ensuring sufficient space between the discs to allow formation of clearly defined zones of inhibition.
- Incubate at 35 ± 1 °C for 18 ± 2 hours.
- Measure and record the diameter of any zones of inhibition, to the nearest whole millimetre, **ignoring any microcolonies in the zone**. Discs showing no zone of inhibition should be recorded as 6 mm.

#### Interpretation of results

To interpret results based on observed zones of inhibition, use the D73C calculator. The calculator is available for download and can be accessed via [www.mast-group.com](http://www.mast-group.com), in the registered members section. Alternatively, results can be interpreted manually by comparing inhibition zone diameters as described below:

Compare the zone of inhibition of the penem disc (A) to the zones of inhibition of each of the penem plus inhibitor discs (B, C and D).

If disc **B only** shows a zone difference ≥5 mm than disc A (C - A and D - A should be <5 mm), record the organism as demonstrating MβL activity.

If disc **C only** shows a zone difference ≥5mm than disc A (B - A and D - A should be <5 mm), record the organism as demonstrating KPC activity.

If discs C and D both show significant zone differences (≥5 mm) compared to disc A (B - A should be <4 mm), record the organism as demonstrating AmpC activity coupled with porin loss (impermeability). If no synergy is obtained between discs A, B, C and D and disc E shows a zone of inhibition of ≤10 mm, record the organism as demonstrating OXA-48 activity. **If an equivocal or negative result is generated but resistance to disc A is shown, the organism may still be expressing a carbapenemase enzyme. Molecular testing or MASTDISCS® ID D74 Indirect Carbapenemase Test (ICT) can be performed to verify this.**

#### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Zones of inhibition obtained using the combination discs with inhibitor and corresponding penem only disc against negative control organism *E. coli* ATCC® 25922 should be equal or show no greater difference in diameter than ±2 mm. The zone diameter for disc E should be >10 mm. Any deviation implies malfunction or deterioration. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain:

Test Organism	Result
<i>Klebsiella pneumoniae</i> NCTC 13440	MβL Positive
<i>Klebsiella pneumoniae</i> NCTC 13438	KPC Positive
<i>Klebsiella pneumoniae</i> NCTC 13442	OXA-48 Positive
<i>Escherichia coli</i> ATCC® 25922	Negative

#### Limitations

D73C is not suitable for detection of carbapenemase production in *Pseudomonas* spp. or *Acinetobacter* spp. To avoid potentially erroneous results, do not mix cartridges from different batches of D73C and ensure all discs in the set are tested on the same plate. D73C may give equivocal results against clinical isolates that have acquired complex co-resident carbapenemase mediated resistance mechanisms. Users are obliged to always use the latest version of the D73C calculator.

#### References

Bibliography available on request.

## MASTDISCS® *Combi* ESβL Detection Set (EUCAST)

D76C

### Intended use

For the detection of extended spectrum beta-lactamases (ESβLs) in Enterobacterales.

FOR IN VITRO DIAGNOSTIC USE ONLY

### Contents and Formulation\*

2 paired sets of cartridges per pack, each cartridge containing approximately 50 discs:

<b>Set 1</b>	CTX5	Cefotaxime 5 µg discs (x1)
	CTXCV	Cefotaxime 5 µg + clavulanic acid 10 µg discs (x1)
<b>Set 2</b>	CAZ10	Ceftazidime 10 µg discs (x1)
	CAZCV	Ceftazidime 10 µg + clavulanic acid 10µg discs (x1)

### Storage and shelf life

Store at 2 to 8°C in the containers provided until the expiry date shown on the pack label. Allow to equilibrate to room temperature before opening.

### Precautions

For *in vitro* diagnostic use only. Observe approved biohazard precautions and aseptic techniques. To be used only by adequately trained and qualified laboratory personnel. Sterilise all biohazard waste before disposal. Refer to Product Safety Data sheet.

### Materials required but not provided

Standard microbiological supplies and equipment such as loops, MAST® culture media, Mueller-Hinton agar, swabs, forceps, callipers etc., as well as an incubator capable of maintaining 35 ± 1°C.

### Procedure

- Using a pure, fresh culture of the test organism, prepare a suspension equivalent in density to a 0.5 McFarland standard in physiological saline.
- Using a sterile swab, spread the suspension uniformly across the surface of a single Mueller Hinton Agar plate in accordance with the European Committee on Antimicrobial Susceptibility Testing (EUCAST) procedure.
- Using a MAST® DISCMASTER Dispenser, or alternatively a sterile needle or forceps, place one of each disc onto the plate of inoculated medium, ensuring sufficient space between the discs to allow formation of clearly defined zones of inhibition.
- Incubate at 35 ± 1 °C for 18 ± 2 hours.
- Measure and record the diameter of any zones of inhibition, to the nearest whole millimetre. Discs showing no zone of inhibition should be recorded as 6 mm.

### Interpretation of results

Compare the zone of inhibition for the cephalosporin disc to that of the corresponding cephalosporin plus clavulanic acid combination disc. An increase in zone diameter of ≥5mm in the presence of clavulanic acid for one or both of the sets indicates the presence of ESβL in the test organism.

### Quality control

Check for signs of deterioration. Quality control must be performed with at least one organism to demonstrate a positive reaction and at least one organism to demonstrate a negative reaction. Zones of inhibition obtained using combination disc plus clavulanic acid and corresponding cephalosporin only disc against ESβL-negative control organism *E. coli*. ATCC® 25922 should be equal or show no greater difference in diameter than ±2mm. Any greater difference implies malfunction or deterioration. Do not use the product if the reactions with the control organisms are incorrect. The list below illustrates a range of performance control strains which the end user can easily obtain:

Test Organism	Result
<i>Escherichia coli</i> NCTC 13351	Positive
<i>Escherichia coli</i> NCTC 13353	Positive
<i>Escherichia coli</i> ATCC® 25922	ESβL Negative

### Limitations

D76C is not suitable for testing *Pseudomonas* spp. or *Acinetobacter* spp. To avoid potentially erroneous results do not mix cartridges from different batches and ensure all discs in the set are tested on the same plate.

### References

Bibliography available on request.

IVD solutions through partnership



# PRODUCT CATALOGUE 2023-2024



# Welcome

Welcome to the Mast Group Ltd product catalogue effective from January 1st 2023. The catalogue comprises ordering information on Mast Group Ltd's extensive portfolio of products available internationally and includes details of our revised Custom Manufacturing Policy (Page vi). This states the lead times and minimum order quantities for special order custom manufactured goods.

With an easy to use contents included, the product groups are categorised into application specific sections, and any new additions are highlighted to assist customers in finding products of interest.

## Quality

Mast Group Ltd is currently certified to ISO9001:2015 'Quality management systems - Requirements', ISO13485:2016 'Medical devices – Quality management systems – Requirements for regulatory purposes', European Directive 98/79/EC 'on in vitro diagnostic medical devices' for Annex II list B products and for ISO13485:2016 for the Canadian Medical Device Requirements (CMDCAS).



## Ethical Statement

Mast Group Ltd operates its business legally and ethically and complies with the British In Vitro Diagnostic Association (BIVDA) Code of Conduct. Mast Group Ltd is also dedicated to ensuring full compliance with the UK Bribery Act 2010, and this policy extends to all business associates, dealings and transactions. For more information go to [www.mast-group.com](http://www.mast-group.com)



## Website

This Catalogue is available electronically from our website:  
[www.mast-group.com](http://www.mast-group.com)



# Ordering Information | 2023

We are pleased to accept International orders by telephone, post, fax and e-mail. Please have the following information available when ordering:

1. **A valid order number for an approved Credit Account**
2. **Delivery address**
3. **Invoice address**
4. **Product code, description, packsize and quantity required**

Please direct all orders to:

**Mast Group Ltd  
Mast House  
Derby Road  
Bootle  
Merseyside  
UK  
L20 1EA**

**Tel: +44 151 472 1444 Customer Services  
Tel: +44 151 933 7277 Main Switchboard**

**e-mail: [orders@mast-group.com](mailto:orders@mast-group.com)  
Website: [www.mast-group.com](http://www.mast-group.com)**

## PRICING

Outside the UK Mast Group Ltd sells and distributes products via its Subsidiary Companies in Germany and France and an associate company in South Africa. The rest of the world is serviced by a network of Distributors.

Please contact your nearest Subsidiary or Distributor for pricing information.

Any prices quotes direct from Mast House are ex-works and exclude freight unless otherwise stated in a specific quotation.

Please note VAT at the current rate will be applied to all orders from UK based purchasers. This will also apply to other EU customers unless a VAT number is provided.

Products designated as Hazardous Goods will be subject to an additional handling charge dependent on destination and mode of transport.

## RETURNS

Should you need to return any items to Mast Group Ltd, please contact Mast Customer Services as detailed above.

**Goods supplied correctly may not be returned without prior written agreement and authorisation number, which may be obtained from Customer Services.**

Goods so returned must be consigned carriage paid, and a restocking and handling charge of 15% will be made on all goods returned for credit.

Credit will only be awarded once a full assessment of re-saleable condition has been made.

Goods may not be returned if the packaging has been defaced in any way.

## CANCELLATIONS

An order for products available from stock may be cancelled at any time prior to the despatch of the order without incurring any additional charges. Cancellation of an order which has been despatched will incur a 15% restocking fee.

Cancellation of products for Special order will be subject to a charge equivalent to 100% of the value of the Special order products if the order has been processed.

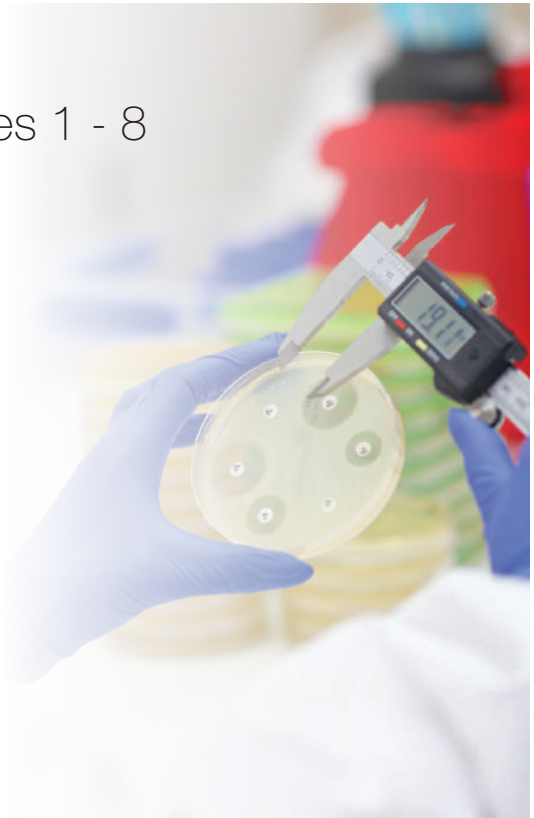
## CONDITIONS OF SALE

Mast Group Ltd's standard Terms and Conditions for Supply of Goods and/or Services apply to all transactions. A copy can be found on pages 43-44 of this publication and at [www.mast-group.com](http://www.mast-group.com)

## Antibiotic Susceptibility Testing | Pages 1 - 8

Mast Group Ltd has been a manufacturer of antibiotic susceptibility test products since 1957, and continues to be at the forefront of developments in this field. Mast Group Ltd's original product was the single antibiotic disc, but the expansion of the portfolio has resulted in the most comprehensive range available worldwide.

MAST® DISCMASTER 5 System  
MASTDISCS®  
ESβL & AmpC Discs  
Carbapenemase discs  
Antibiotic Strips  
MASTRING-S®  
ADATAB®



## MAST URI®SYSTEM | Page 9 - 10

The MAST URI®SYSTEM is a group of instrumentation, software and consumables that facilitates the rapid microbiological examination of urine samples to differentiate infected urines from those that are sterile or contaminated. The system will subsequently report bacterial identification and antibiotic susceptibility results on those specimens considered to be significant.

Comprising the MAST URI®PLUS analyser; MAST URI®WELL dispensing aid; MAST URI®PLATES and MAST URI®DOT inoculator with 96 well head and pins, the MAST URI®SYSTEM is designed to deliver results in a fast and cost-effective manner.

## MASTURI®PLATES

A standard range of antibiotic and identification media in 96-well microtitre plates for urine screening.



## Contents

### Culture Media and Supplements | Pages 11 - 16

As a specialist microbiology company, Mast Group Ltd has an extensive range of Dehydrated Culture Media, and selective supplements for the culture, examination, selection, isolation and transport of clinically significant organisms from patient specimens.

Dehydrated Culture Media  
MAST® SELECTATAB & MAST® SELECTAVIAL  
Selective Supplements  
MAST® ID CHROMagar® Candida  
REDIPREP® Prepared Egg media



### General Products | Page 17

Products for general laboratory use which may also be applicable in disciplines other than microbiology.

MAST® BACTERURITEST  
Reliable and inexpensive urine screening method.  
CRYOBANK® is a cryogenic storage system for QC organisms.



## Identification and Detection | Pages 18 - 29

Mast Group Ltd offers a range of products for identification and detection by a variety of methods, incorporating biochemical tests, latex agglutination, agglutinating antisera and molecular biology based assays.

MAST® ID Biochemical tests and reagents  
MAST® Rapid Slide Latex Kits  
MAST® ID Identification Strips and Rings  
Identification of *Haemophilus* spp.  
Identification of *Staphylococcus* spp.  
MAST® ID Discs  
Detection of ESβL & AmpC  
Detection of Carbapenemase  
Identification of MRSA  
Identification of *Candida* spp.  
MAST® ASSURE Bacterial Agglutinating Antisera

## Veterinary | Page 30

A range of products for the detection and identification of veterinary pathogens. This includes Mast Group Ltd's antibiotic susceptibility testing portfolio which offers custom manufacture to specifically address the causative agents of infectious disease in animals.

Eiken SAA Reagents  
Toxoplasma Detection  
Veterinary Pathogen EIA  
Antibiotic Susceptibility Testing  
Discs and Rings

## Contents

### Molecular Biology | Page 31

Mast Group Ltd's molecular portfolio offers laboratories the ability to achieve rapid and reliable diagnosis by nucleic acid amplification.

#### MAST ISOPLEX®

A range of rapid Isothermal nucleic acid amplification tests.



## **Mast Group Ltd Immunodiagnostic Tests** | Pages 32 - 34 Infectious Disease

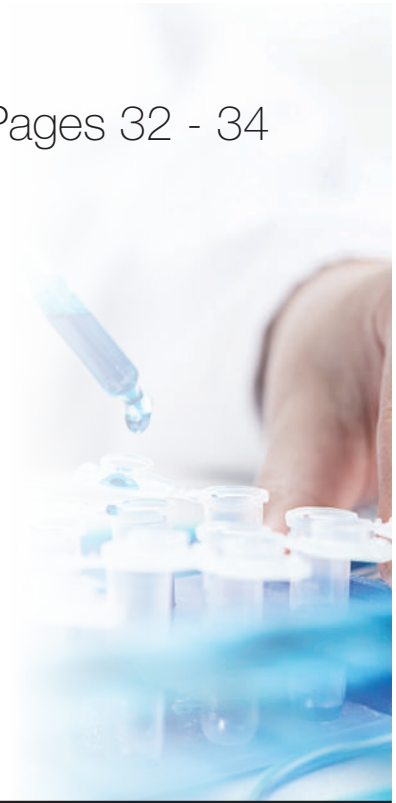
A range of immunofluorescence (IF), enzyme immunoassay (EIA) and Western Blot products for the identification and detection of a range of infectious organisms.

MASTAFLUOR® Kits, controls, slides and reagents

MASTAZYME® EIA kits

MASTABLOT® Lineblot Assays

MASTABLOT® Western Blot Assays



## **Mast Group Ltd Immunodiagnostic Tests** | Pages 35 - 37 Autoimmune

A range of immunofluorescence (IF) and enzyme immunoassay (EIA) products for the diagnosis of autoimmune disease.

MASTAFLUOR® Kits, controls, slides and reagents

MASTAZYME® EIA kits



# Mast Group Ltd Custom Manufacturing Policy

MAST aims to provide customers with a high standard of product quality and customer service, and is an ISO9001 and ISO13485 certified company. Mast has an extensive range of products available from stock. Mast offers a custom manufacturing service to make products to customer specification, with minimum order requirements whilst complying with international regulatory requirements.

All customer requests for a customised product will be coded /NCE and labelled 'Not for clinical diagnostic use'. For veterinary or research use only', unless the antibiotic strengths requested are in line with the current EUCAST/CLSI requirements and the full technical file is available in which case they may be CE marked.

It is important that every customer understands the terms and conditions of this service, a summary of which covering the most popular products is provided in the table below. One important issue is that we specify the minimum order quantity for each type of product and, whilst every attempt is made to achieve this actual number (or a higher quantity if ordered), the nature of the processes involved means the target quantity cannot be guaranteed – our commitment is to supply between 80 and 100% of the quantity ordered. The final quantity may also comprise of more than one batch number. Exceptions may be made for specific tenders if agreed in advance.

**Mast Group Ltd. can only manufacture in certain increments above the minimum quantity due to the nature of the manufacturing processes, and this is considered in the pricing.**

Product	Min. order (packs)	Increments (packs)	Optimum (packs)	Lead time (weeks)
Cartridge discs	18	10	98	6*
Discs in vials	22	25	97	6*
Mastrings (number coded)	Initial order 10	10	100	6*
	Subsequent 10			
Mastrings (letter coded)	Initial order 20	10	100	6*
	Subsequent 10			
Adatab	14	15	44	6*
Selectavial/Selectatab	A	A	A	6*
Mast Assure	1	1	50	8
Media Stock Formulae (5kg packs)	1	N.A.	20	6
Media Non-Stock Formulae	25Kg	N.A.	75Kg	~12*

N.A. = not applicable

\* / A see notes below

\* Please note 6 weeks lead time refers to new strengths of currently used antibiotics or slight modifications of existing products. For products containing new antibiotics/materials which we have never worked with before, or there is a special cartridge variant, there is an evaluation process and review which has to be performed leading to a minimum 12 week lead time. Pricing will be on application and specific delivery dates will be provided by quotation for such new products.

A Minimum order, increments and optimum quantities for MAST® SELECTAVIAL and MAST® SELECTATAB products are dependent on customer specifications and pack size. Minimum order quantity and prices will be confirmed by quotation




# Disc Diffusion Susceptibility Testing

## MASTDISCS<sup>®</sup>AST

### ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES

#### STOCK RANGE


Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Cartridges 5 × 50 discs
	CLSI	EUCAST	
			
Cefpodoxime 10	✓	✓	CPD10C
Ceftaroline 5	-	✓	CPT5C
Ceftaroline 30	✓	-	CPT30C
Ceftazidime 10	-	✓	CAZ10C
Ceftazidime 30	✓	-	CAZ30C
Ceftazidime/avibactam 10-4	-	✓	CZA14C
Ceftazidime/avibactam 30-20	✓	-	CZA50C
Ceftibuten 30	✓	✓	CFB30C
Ceftobiprole 5	<b>NEW</b>	✓	BPR5C
Ceftolozane/tazobactam 30-10	✓	✓	C/T40C
Ceftriaxone 5	✓	-	CRO5C
Ceftriaxone 30	✓	✓	CRO30C
Cefuroxime 30	✓	✓	CXM30C
Chloramphenicol 30	✓	✓	C30C
Ciprofloxacin 5	✓	✓	CIP5C
Clarithromycin 15	✓	-	CLA15C
Clindamycin 2	✓	✓	CD2C
Delafloxacin 5	✓	-	DLX5C
Doripenem 10	✓	✓	DOR10C
Doxycycline 30	✓	-	DXT30C
Eravacycline 20	✓	✓	ERV20C
Ertapenem 10	✓	✓	ETP10C
Erythromycin 15	✓	✓	E15C
Fosfomycin/Glucose-6-Phosphate 200	✓	✓	FOT200C
Fusidic Acid 10	-	✓	FC10C
Gentamicin 10	✓	✓	GM10C
Gentamicin 30	-	✓	GM30C
Gentamicin 120	✓	-	GM120C
Imipenem 10	✓	✓	IMI10C
Imipenem/relebactam 10-25	✓	-	IMR35C
Kanamycin 30	✓	-	K30C
Lefamulin 20	✓	-	LMU20C
Levofloxacin 5	✓	✓	LEV5C
Linezolid 10	-	✓	LZD10C
Linezolid 30	✓	-	LZD30C
Mecillinam 10	✓	✓	MEC10C
Meropenem 10	✓	✓	MEM10C
Meropenem/Vaborbactam 20-10	✓	✓	MEV30C
Minocycline 30	✓	-	MN30C
Moxifloxacin 5	✓	✓	MFX5C
Mupirocin 200	-	✓	MUP200C
Metronidazole 5	-	✓	MZ5C
Nalidixic Acid 30	✓	✓	NA30C
Neomycin 10	-	✓	NE10C
Netilmicon 10	-	✓	NET10C
Netilmicin 30	-	✓	NET30C
Nitrofurantoin 100	-	✓	NI100C
Nitrofurantoin 300	✓	-	NI300C
Nitroxoline 30	-	✓	NIB30C
Norfloxacin 10	✓	✓	NOR10C
Novobiocin 5	-	-	NO5C
Ofloxacin 5	✓	✓	OFX5C
Oxacillin 1	✓	✓	OX1C
Pefloxacin 5	-	✓	PEF5C
Penicillin G 1 unit	-	✓	PG1C
Penicillin G 10 units	✓	-	PG10C
Piperacillin 30	-	✓	PRL30C

# Disc Diffusion Susceptibility Testing

## MASTDISCS<sup>®</sup>AST


### ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES

#### STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Cartridges 5 x 50 discs
	CLSI	EUCAST	
			
Piperacillin 100	✓	-	PRL100C
Piperacillin/tazobactam 30-6	-	✓	PTZ36C
Piperacillin/tazobactam 100-10	✓	-	PTZ110C
Rifampicin 5	✓	✓	RP5C
Streptomycin 10	✓	-	S10C
Streptomycin 300	✓	✓	S300C
Tedizolid 2	✓	✓	TZD2C
Teicoplanin 30	✓	✓	TEC30C
Temocillin 30	-	✓	TEM30C
Tetracycline 30	✓	✓	T30C
Ticarcillin 75	✓	✓	TC75C
Ticarcillin/clavulanic acid 75-10	✓	✓	TIM85C
Tigecycline 15	✓	✓	TGC15C
Tobramycin 10	✓	✓	TN10C
Trimethoprim 5	✓	✓	TM5C
Trimethoprim/sulfamethoxazole 1.25/23.75	✓	✓	TS25C
Vancomycin 5	-	✓	VA5C
Vancomycin 30	✓	-	VA30C
Blank discs	-	-	BD0680W/C/NCE

## MASTDISCS<sup>®</sup>AST

### ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES - SPECIALIST STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Cartridges 5 x 50 discs
	CLSI	EUCAST	
			
Amoxicillin 25	-	-	A25C/NCE
Carbenicillin 100	-	✓	PY100C
Colistin Sulphate	-	-	CO10C/NCE
Colistin Sulphate	-	-	CO25C/NCE
Polymyxin B 300	-	-	PB300C/NCE


### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS - STOCK RANGE

Antibiotic & Strength (unless otherwise stated)	Veterinary Cartridges 5 x 50 discs
Cefquinome 30	CEQ30C/NCE
Cefoperazone 30	CPZ30C/NCE
Enrofloxacin 5	ENF5C/NCE
Florenfenicol 30	FFC30C/NCE
Gamithromycin 15	GAM15C/NCE
Marbofloxacin 5	MAR5C/NCE
Neomycin 30	NE30C/NCE
Pradofloxacin 5	PRA5C/NCE
Tildipirison 60	TIP60C/NCE
Tylosin 30	TY30C/NCE

# Disc Diffusion Susceptibility Testing

## MASTDISCS<sup>®</sup> AST

### ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Vials 99+/- 2 discs
	CLSI	EUCAST	
			
Bacitracin 10	-	-	BA10
Cefpodoxime 10	✓	✓	CPD10
Chloramphenicol 30	✓	✓	C30
Gentamicin 10	✓	✓	GM10
Metronidazole 5	-	-	MZ5
Nalidixic Acid 30	✓	✓	NA30
Oxacillin 1	✓	-	OX1
Penicillin G 1 unit	-	✓	PG1
Vancomycin 5	-	✓	VA5
Blank discs	-	-	BD0638W/NCE

## MASTDISCS<sup>®</sup> AST

### ANTIFUNGAL SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	Order Code Cartridges 5 x 50 discs
Amphotericin B 20	AMB20C/NCE
Clotrimazole 10	CTM10C/NCE
Econazole 10	ECN10C/NCE
Fluconazole 10	FCN10C/NCE
Fluconazole 25	FCN25C/NCE
Flucytosine 1	FY1C/NCE
Ketoconazole 10	KCA10C/NCE
Miconazole 10	MCL10C/NCE
Nystatin 100	NY100C/NCE

# Disc Diffusion Susceptibility Testing

Order No	Product	Mechanism	Packsizes (tests)
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## MASTDISCS® Combi

### COMBINATION DISC SETS FOR THE DETECTION OF ANTIBIOTIC RESISTANCE

D52C	Extended Spectrum $\beta$ Lactamase Set (CPD 30)	ESBL	50 tests
D62C	Cefotaxime 30 & Cefotaxime 30/Clavulanic Acid 10	ESBL	150 tests
D63C	Cefepime 30 & Cefepime 30/Clavulanic Acid 10	ESBL	150 tests
D64C	Ceftazidime 30 & Ceftazidime 30/Clavulanic Acid 10	ESBL	150 tests
D66C	Cefpodoxime 10 & Cefpodoxime 10/Clavulanic Acid 1	ESBL	150 tests
D67C	Extended Spectrum $\beta$ Lactamase Set (CPD10)	ESBL	50 tests
D68C	AmpC & ESBL Detection Set	AmpC/ESBL	50 tests
D69C	AmpC Detection Set	AmpCs	50 tests
D72C	AmpC, ESBL & Carbapenemase Detection Disc Set	AmpC/ESBLs/Carba	50 tests
D73C	MAST® Carba plus	MBL/KPC/OXA	50 tests
D76C	ESBL Detection Set (EUCAST)	ESBL	50 tests

### Additional carbapenemase screening and identification tests

D71C	MAST® CAT-ID - For presumptive identification of carbapenemase production		250 tests
D74	MAST® ICT - screening test for the detection of carbapenemase production in Enterobacterales, <i>Pseudomonas</i> and <i>Acinetobacter</i> spp.		25 tests
TEM30C	To aid presumptive identification of OXA-48		5 x 50 discs

### RAPID CARBAPENEMASE DETECTION

DNA/LYO5	Rapid molecular carbapenemase detection in Enterobacterales, <i>Pseudomonas</i> spp. and <i>Acinetobacter</i> spp.		10 tests
PACE-ID	Colorimetric test for the rapid detection of carbapenemase producing <i>Pseudomonas</i> spp., <i>Acinetobacter</i> spp. and Enterobacterales.		48 tests

## MASTDISCS® AST

### LOW CONTENT PENICILLIN DISCS

For detecting the emergence of penicillin resistance. (vials of 99+/- 2 discs or 5 x 50 discs in cartridges)

PG1	Penicillin G (vials)	1 unit	1 vial
	PG1C Penicillin G (cartridges)	1 unit	1 pack

### OXACILLIN STRIPS

STOX	Oxacillin Strips for the detection of MRSA (this product is a direct replacement for STMT methicillin strips)		50 Strips
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# Disc Diffusion Susceptibility Testing

## MASTRING-S®

The same price applies to 6 and 8 antimicrobial rings.  
(100 rings per tin)

### Systemic Gram Positive Rings

<b>M13/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>55.23</b>
C Chloramphenicol			25µg
E Erythromycin			5µg
FC Fusidic acid			10µg
OX Oxacillin			5µg
NO Novobiocin			5µg
PG Penicillin G			1 unit
S Streptomycin			10µg
T Tetracycline			25µg

### Systemic Gram Negative Rings

<b>M14/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>55.23</b>
AP Ampicillin			10µg
KF Cephalothin			5µg
CO Colistin Sulphate			25µg
GM Gentamicin			10µg
S Streptomycin			10µg
ST Sulphatriad			200µg
T Tetracycline			25µg
TS Cotrimoxazole			25µg

### Urine Rings

<b>M26/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>55.23</b>
AP Ampicillin			25µg
C Chloramphenicol			50µg
CO Colistin Sulphate			100µg
K Kanamycin			30µg
NA Nalidixic acid			30µg
NI Nitrofurantoin			50µg
S Streptomycin			25µg
T Tetracycline			100µg

### M43/NCE 8 tips 1 tin 55.23

PG Penicillin G	1 unit
CD Clindamycin	2µg
GM Gentamicin	10µg
FC Fusidic acid	10µg
E Erythromycin	5µg
TM Trimethoprim	1.25µg
SMX Sulphamethoxazole	25µg
T Tetracycline	10µg

Special order rings are subject to 4-6 weeks lead time.

TOOL/M	*Set up charge for MASTRING SPECIAL: a one off charge for customisation of each new MASTRING SPECIAL (letter coded)	Per new specification
MASTRING SPECIAL	MASTRING-S® to individual specification. Minimum order 10 tins of 100 rings	

New Specification NUMBER coded MASTRING-S® are subject to an initial minimum order of 10 tins.

New Specification LETTER coded MASTRING-S® are subject to an initial minimum order of 20 tins.

Subsequent orders: minimums of 10 tins.

Order No	Product	Usage	Packsize
<b>ADATAB®</b>			
<b>For agar dilution antibiotic susceptibility testing. Each tablet for addition to 100ml medium.</b>			
<b>STOCK ADATAB®</b>			
TAB/AK3.2	AMIKACIN 3.2mg	1 tablet per 100ml	25 tablets
TAB/A3.2	AMOXICILLIN 3.2mg	1 tablet per 100ml	25 tablets
TAB/AP0.8	AMPICILLIN 0.8mg	1 tablet per 100ml	25 tablets
TAB/AP3.2	AMPICILLIN 3.2mg	1 tablet per 100ml	25 tablets
TAB/AUG3.2	AMOXICILLIN/CLAVULANIC ACID 3.2mg	1 tablet per 100ml	25 tablets
TAB/CPD0.1	CEFPODOXIME 0.1mg	1 tablet per 100ml	25 tablets
TAB/CTX0.2	CEFOTAXIME 0.2mg	1 tablet per 100ml	25 tablets
TAB/CTX1.6	CEFOTAXIME 1.6mg	1 tablet per 100ml	25 tablets
TAB/FOX0.4	CEFOXITIN 0.4mg	1 tablet per 100ml	25 tablets
TAB/CAZ0.8	CEFTAZIDIME 0.8mg	1 tablet per 100ml	25 tablets
TAB/CAZ3.2	CEFTAZIDIME 3.2mg	1 tablet per 100ml	25 tablets
TAB/CXM3.2	CEFUROXIME 3.2mg	1 tablet per 100ml	25 tablets
TAB/CFX3.2	CEFALEXIN 3.2mg	1 tablet per 100ml	25 tablets
TAB/C0.8	CHLORAMPHENICOL 0.8mg	1 tablet per 100ml	25 tablets
TAB/CIP0.2	CIPROFLOXACIN 0.2mg	1 tablet per 100ml	25 tablets
TAB/CIP0.8	CIPROFLOXACIN 0.8mg	1 tablet per 100ml	25 tablets
TAB/CD0.1	CLINDAMYCIN 0.1mg	1 tablet per 100ml	25 tablets
TAB/CO0.8	COLISTIN 0.8mg	1 tablet per 100ml	25 tablets
TAB/E0.2	ERYTHROMYCIN 0.2mg	1 tablet per 100ml	25 tablets
TAB/FOT12.8	FOSFOMYCIN TROMETAMOL 12.8mg	1 tablet per 100ml	25 tablets
TAB/FC0.2	FUSIDIC ACID 0.2mg	1 tablet per 100ml	25 tablets
TAB/GM0.1	GENTAMICIN 0.1mg	1 tablet per 100ml	25 tablets
TAB/GM0.4	GENTAMICIN 0.4mg	1 tablet per 100ml	25 tablets
TAB/GM0.8	GENTAMICIN 0.8mg	1 tablet per 100ml	25 tablets
TAB/LZD0.4	LINEZOLID 0.4mg	1 tablet per 100ml	25 tablets
TAB/MEM0.4	MEROPENEM 0.4mg	1 tablet per 100ml	25 tablets
TAB/MEM1.6	MEROPENEM 1.6mg	1 tablet per 100ml	25 tablets
TAB/MUP0.4	MUPIROCIN 0.4mg	1 tablet per 100ml	25 tablets
TAB/NA3.2	NALIDIXIC ACID 3.2mg	1 tablet per 100ml	25 tablets
TAB/NI3.2	NITROFURANTOIN 3.2mg	1 tablet per 100ml	25 tablets
TAB/NI6.4	NITROFURANTOIN 6.4mg	1 tablet per 100ml	25 tablets
TAB/OX0.1	OXACILLIN 0.1mg	1 tablet per 100ml	25 tablets
TAB/OX0.2	OXACILLIN 0.2mg	1 tablet per 100ml	25 tablets
TAB/PG0.006	PENICILLIN G 0.006mg	1 tablet per 100ml	25 tablets
TAB/PG0.025	PENICILLIN G 0.025mg	1 tablet per 100ml	25 tablets
TAB/RP0.006	RIFAMPICIN 0.006mg	1 tablet per 100ml	25 tablets
TAB/RP0.2	RIFAMPICIN 0.2mg	1 tablet per 100ml	25 tablets
TAB/PTZ0.8	PIPERACILLIN /TAZOBACTAM 0.8mg	1 tablet per 100ml	25 tablets
TAB/PTZ1.6	PIPERACILLIN /TAZOBACTAM 1.6mg	1 tablet per 100ml	25 tablets
TAB/TEC0.8	TEICOPLANIN 0.8mg	1 tablet per 100ml	25 tablets
TAB/T0.4	TETRACYCLINE 0.4mg	1 tablet per 100ml	25 tablets
TAB/TN0.2	TOBRAMYCIN 0.2mg	1 tablet per 100ml	25 tablets
TAB/TM0.05	TRIMETHOPRIM 0.05mg	1 tablet per 100ml	25 tablets
TAB/TM0.2	TRIMETHOPRIM 0.2mg	1 tablet per 100ml	25 tablets
TAB/TM0.8	TRIMETHOPRIM 0.8mg	1 tablet per 100ml	25 tablets
TAB/VA0.4	VANCOMYCIN 0.4mg	1 tablet per 100ml	25 tablets

## ADATAB®S TO SPECIAL ORDER

**Please contact your Mast Technical Representative for special order requests and pricing.  
Please also refer to Mast Group Ltd's Custom Manufacturing Policy for more information.**

Any ADATAB® may be made to custom manufacture dependent on the characteristics and availability of the antibiotic	1 tablet per 100ml	25 tablets
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# Multipoint Technology

Order No	Product	Packsizes
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## MAST ID®

**MAST ID® Biochemical tests in agar for microbial identification using multipoint inoculation. Each pack contains 10 × 200ml preweighed sachets.**

IDM1/A/NCE	Amygdalin Agar	1 pack
IDM25/A/NCE	H <sub>2</sub> S Agar	1 pack
IDM26/A/NCE	LDC Agar	1 pack
IDM9/A/NCE	Sorbitol Agar	1 pack

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## MAST ID® REAGENTS

DM228S	Urea Solution (40% w/v) for use with Urea Agar Base (Multipoint) (DM228D)	10 × 10ml
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## MASTURI<sup>®</sup>DOT

### AUTOMATIC MULTIPOINT INOCULATOR

**Subject to a lead time of 8 weeks**

SCANURIDOT	Mast Uri <sup>®</sup> Dot Automatic multipoint inoculator with footswitch and spares N.B. Appropriate equipment sets for 19, 36 or 96 point inoculation must also be ordered separately from the accessories list below.	1 unit
	<b>Accessories</b> (must be ordered separately)	
SCANES019	Equipment set for 19 point inoculation - Stainless steel inoculum pot and head, with 19 x 1.6mm inoculum pins	1 Set
SCANES019N	Equipment set for 19 point inoculation - Stainless steel inoculum pot and head, with 19 x 2.4mm inoculum pins	1 Set
SCANES036	Equipment set for 36 point inoculation - Stainless steel pot and head, with 36 x 1.6mm inoculum pins	1 Set
SCANES036N	Equipment set for 36 point inoculation - Stainless steel pot and head, with 36 x 2.4mm inoculum pins	1 Set
SCANES096	Equipment set for 96 point inoculation - stainless steel inoculum head & 96 x 1.6mm pins	1 Set
SCANES096N	Equipment set for 96 point inoculation - stainless steel inoculum head & 96 x 2.4mm pins	1 Set
SCAN 110	1.6mm Inoculum pin, stainless steel	1
SCAN 110N	2.4mm Inoculum pin, stainless steel	1
SCAN 111SS	Inoculum head, 19 pin (1.6mm), stainless steel	1
SCAN 112SS	Inoculum head, 36 pin (1.6mm), stainless steel	1
SCAN 113SS	Inoculum pot, 19 well, stainless steel	1
SCAN 114SS	Inoculum pot, 36 well, stainless steel	1
SCAN 496	Inoculum head, 96 pin (1.6mm), stainless steel	1
SCAN 496N	Inoculum head, 96 pin (2.4mm), stainless steel	1
SCAN 120	Marker Assembly	1
SCANURICADDY	Mast Uri <sup>®</sup> Caddy for sterilisation of pin heads used with the Mast Uri <sup>®</sup> Dot automatic multipoint inoculator	1

## MASTURI<sup>®</sup>SYSTEM

### Subject to a lead time of 8 weeks

The Mast **Uri**<sup>®</sup>System is a group of instrumentation, software and consumables that facilitates the rapid microbiological examination of urine samples to differentiate infected urines from those that are sterile or contaminated. The system will subsequently report bacterial identification and antibiotic susceptibility results on those specimens considered to be significant.

Comprising the Mast **Uri**<sup>®</sup>*Plus* analyser; Mast **Uri**<sup>®</sup>*Well* dispensing aid; Mast **Uri**<sup>®</sup>*Plates* and Mast **Uri**<sup>®</sup>*Dot* inoculator with 96 well head and pins, the Mast **Uri**<sup>®</sup>System is designed to deliver results in a fast and cost-effective manner.

### Testing is divided into four phases:

Inoculation of urine samples onto Mast **Uri**<sup>®</sup>*Plates*  
 18-24 hours incubation  
 Next day reading and analysis  
 Validation of results

This means that >95% of antibiotic and identification results can be reported the day after receipt

### Software Modules and Accessories

SCANURIPLUS	Mast <b>Uri</b> <sup>®</sup> <i>Plus</i> Analyser	1
SCANURIWELL	Mast <b>Uri</b> <sup>®</sup> <i>Well</i> Dispensing aid	1
SCANURIDOT	Mast <b>Uri</b> <sup>®</sup> <i>Dot</i> Inoculator	1
URIINTER	Mast <b>Uri</b> <sup>®</sup> <i>Plus</i> Interface Module	1
URIMAIN	Mast <b>Uri</b> <sup>®</sup> <i>Plus</i> Maintenance contract	1
SCANURILOLOCATE	Mast <b>Uri</b> <sup>®</sup> <i>locate</i> orientation marker pin 1.6mm	1
SCANURILOLOCATEN	Mast <b>Uri</b> <sup>®</sup> <i>locate</i> orientation marker pin 2.4mm	1
URILOLOCATE	Mast <b>Uri</b> <sup>®</sup> <i>Locate</i> reagent	14 ml
SCANURIRACK	Mast <b>Uri</b> <sup>®</sup> <i>Rack</i> storage accessory	1
SCANURIPREP	Mast <b>Uri</b> <sup>®</sup> <i>Prep</i> (includes <b>Uri</b> <sup>®</sup> <i>Prep</i> tablet and barcode reader)	1
SCANURICADDY	Mast <b>Uri</b> <sup>®</sup> <i>Caddy</i> for sterilisation of pin heads used with the Mast <b>Uri</b> <sup>®</sup> <i>Dot</i> automatic multipoint inoculator	1

## MASTURI<sup>®</sup>PLATES

### CONSUMABLES

A standard range of antibiotic and identification media in 96-well microtitre plates for urine screening. Plates manufactured to customer specification depending on Mast's ability to produce.

Antibiotic and identification plates can be combined to constitute individual plate sets according to specific laboratory requirements. Price by quotation.

# Culture Media & Supplements

Order No

Product

## CLINICAL & INDUSTRIAL CULTURE MEDIA

**Stock range pack size 500g unless otherwise stated**

DM100D	Blood Agar Base	
DM104D	Brain Heart Infusion Agar	
DM106D	Brain Heart Infusion Broth	
DM494D	Buffered Peptone Water	
DM253D	Burkholderia cepacia Medium	
DM470D/NCE	C.E.M.O. Agar	
DM110D	C.L.E.D. Medium	
DM111D	C.L.E.D. with Andrade's Indicator	
DM115D	Columbia Agar	
DM130D	D.C.A. (Hynes)	
DM132D	DNase Agar	
DM133D	Eosin Methylene Blue Agar	
DM136D	G.C. Agar Base	
DM134D	Hektoen Enteric Agar	
DM137D	Kligler's Iron Agar	
DM258D	Legionella BCYE Agar Base	
DM440D	M.S.R.V. (Salmonella) Medium	
DM141D	MacConkey Agar	
DM140D	MacConkey Agar (without salt)	
DM142D	MacConkey Agar No.2	
DM143D	MacConkey Agar No.3	
DM150D	MacConkey Broth	
DM160D	Mannitol Salt Agar	
DM170D	Mueller Hinton Agar	
DM179D	Nutrient Agar	
DM195D	Plate Count Agar	
DM251D	Preston Blood Free Campylobacter Agar Base	
DM205D	S.S. Agar	
DM200D	Sabouraud Dextrose Agar	
DM211D	Simmons Citrate Agar	
DM218D	T.C.B.S. Cholera Medium	
DM219S	Tetrathionate Broth	
DM224D	Triple Sugar Iron Agar (TSI)	
DM225D	Tryptone Soy Agar	
DM226D	Tryptone Soy Broth	
DM228D	Urea Agar Base	
DM228S	Urea Solution (40% v/v)	10 x 10 ml
DM235D	Wilkins Chalgren Agar	
DM230D	X.L.D. Agar	
DM252D	Yersinia Agar Base	

**5 Kg packs of media are available to Special order**

**Please refer to Mast Group Ltd's Custom Manufacturing Policy for more information**

# Culture Media & Supplements

Order No	Product	Packsize
<b>The following products are available to Special Order</b>		
<b>Lead time 4-6 weeks. Minimum order 1 pack.</b>		
<b>BASIC MEDIA RAW MATERIALS</b>		
RM10A	Agar A	100g
RM10B	Agar A	500g
RM10E	Agar A	5Kg
RM20A	Beef Extract, Neutralised Powder	100g
RM20B	Beef Extract, Neutralised Powder	500g
RM20E	Beef Extract, Neutralised Powder	5Kg
RM25A	Bile Salts	100g
RM25Q	Bile Salts	250g
RM25E	Bile Salts	5Kg
RM30A	Casein Hydrolysate, Acidic	100g
RM30Q	Casein Hydrolysate Acidic	250g
RM30E	Casein Hydrolysate, Acidic	5Kg
RM31A	Casein Hydrolysate, Enzymic	100g
RM31Q	Casein Hydrolysate, Enzymic	250g
RM31E	Casein Hydrolysate, Enzymic	5Kg
RM50A	Peptone, A, Neutralised	100g
RM50Q	Peptone A, Neutralised	250g
RM50E	Peptone, A, Neutralised	5Kg
RM51A	Peptone, B	100g
RM51Q	Peptone B	250g
RM51E	Peptone, B	5Kg
RM52A	Bacteriological Peptone	100g
RM52Q	Bacteriological Peptone	250g
RM52E	Bacteriological Peptone	5Kg
RM60A	Sodium Desoxycholate	100g
RM70A	Yeast Extract	100g
RM70B	Yeast Extract	500g
RM70E	Yeast Extract	5Kg
RM71A	Yeast Extract Special	100g
RM71B	Yeast Extract Special	500g
RM71E	Yeast Extract Special	5Kg

**Quotations for bulk orders obtainable on request.**

# Culture Media & Supplements

Order No	Product	Usage	Packsize
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## SELECTIVE SUPPLEMENTS

**MAST® SELECTATAB and MAST® SELECTAVIAL**  
Lyophilised supplements in tablets and vials for the preparation of selective, differential or enrichment media.

**MAST® SELECTATAB, MAST® SELECTAVIAL and 500g packs of media** are available from stock.

**5Kg packs of media are available to Special order**  
Please refer to **MAST Custom Manufacturing Policy** for more information

Order No	Product	Usage	Packsize
<b>Anaerobe Isolation</b>			
MS8A	Neomycin Selectatab	1 tab per 500ml	10 tablets
SV8	Neomycin Selectavial	1 vial per litre	10 vials
SV9	Nalidixic Acid Selectavial	1 vial per litre	10 vials
DM115D	Columbia Agar		500g
<b>Burkholderia cepacia Selection</b>			
MS22	Burkholderia cepacia Selectatab	1 tab per 100ml	25 tablets
SV22	Burkholderia cepacia Selectavial	1 vial per 500ml	10 vials
DM253D	Burkholderia cepacia Medium		500g
<b>Campylobacter Selection</b>			
MS18	Camp Selectatab (Preston Blood Free)	1 tab per 250ml	25 tablets
MS26	Camp Selectatab (Modified Butzler Medium Virion)	1 tab per 500ml	10 tablets
DM115D	Columbia Agar		500g
DM251D	Preston Blood Free Campylobacter Agar Base		500g
<b>Campylobacter Selective Enrichment</b>			
SV59	Campylobacter Selective Supplement (Exeter)	1 vial per 1.125 litre	10 vials
SV61	Campylobacter Growth Supplement (FBP)	1 vial per 1.125 litre	10 vials
<b>C.E.M.O Selection (<i>T. equigenitalis</i>)</b>			
MS31/NCE	C.E.M.O. 1 Selectatab	1 tab per 100ml	25 tablets
MS32/NCE	C.E.M.O. 2 Selectatab	1 tab per 100ml	25 tablets
MS60/NCE	C.E.M.O. Supplement Selectatab	1 tab per 500ml	10 tablets
DM470D/NCE	C.E.M.O Agar		500g
<b>E.coli O157 Selection</b>			
DM491D	Sorbitol MacConkey Agar		500g

# Culture Media & Supplements

Order No	Product	Usage	Packsize
	<b><i>E.coli</i> O157 Enrichment</b>		
DM494D	Buffered Peptone water		500g
SV30	Novobiocin Selectavial	1 vial per 2.25 litre	10 vials
DM115D	Columbia Agar		500g
	<b><i>Gardnerella</i> Selection</b>		
MS15	Gardnerella Selectatab	1 tab per 250ml	25 tablets
DM115D	Columbia Agar		500g
	<b>G.C. Selection</b>		
SV5	G.C. Selectavial (V.C.T.)	1 vial per litre	10 vials
SV6	G.C. Selectavial (V.C.N.T.)	1 vial per litre	10 vials
SV16	G.C. Growth Selectavial	1 vial per litre	10 vials
SV20	G.C. Selectavial (L.C.A.T.)	1 vial per litre	10 vials
DM136D	G.C. Agar Base		500g
	<b><i>Haemophilus</i> Selection</b>		
MS27	Haemophilus Selectatab (Bacitracin)	1 tab per 100ml	25 tablets
SV27	Haemophilus Selectavial (Bacitracin)	1 vial per litre	10 vials
SV82	NAD Selectavial 	1 vial per litre	10 vials
DM115D	Columbia Agar		500g
	<b><i>Legionella</i> Selection</b>		
SV36	Legionella Selectavial (MWY)	1 vial per 500ml	10 vials
SV37	Legionella Selectavial (PNV)	1 vial per 500ml	10 vials
DM258D	Legionella B.C.Y.E Agar Base		500g
	<b><i>Legionella</i> Enrichment</b>		
SV35	Legionella Growth Supplement (L-CYS)	1 vial per 500ml	10 vials
DM258D	Legionella B.Y.C.E Agar Base		500g
	<b><i>Listeria</i> Selection</b>		
SV33	Listeria Selectavial (Oxford) Formula	1 vial per 500ml	10 vials
DM256D	Listeria Selective Agar Base (Oxford)		500g
	<b><i>Listeria</i> Enrichment</b>		
SV34	Listeria Selectavial (Selective Enrichment)	1 vial per 500ml	10 vials
	<b><i>Mycobacteria</i> Selection</b>		
MS24	Mycobacteria Selectatab (Kirchner)	1 tab per 500mls	10 tablets
SV40	Sputagest Selectavial	1 vial per 100ml	10 vials
	<b><i>Salmonella</i> Selection</b>		
DM440D	M.S.R.V. (Salmonella) Medium		500g
DM160D	Mannitol Salt Agar		500g

# Culture Media & Supplements

Order No	Product	Usage	Packsize
	<b>Yersinia Selection</b>		
MS19	Yersinia Selectatab	1 tab per 250ml	25 tablets
DM252D	Yersinia Agar Base		500g
	<b>Yeast &amp; Mould Isolation</b>		
SV54	Chloramphenicol Selectavial	1 vial per 500ml	10 vials
DM200D	Sabouraud Dextrose Agar		500g
DM702D	Yeast Glucose Chloramphenicol Agar		500g

Supplements not listed here may be available to Special Order in either MAST® SELECTATAB or MAST® SELECTAVIAL format. Please refer to MAST Custom Manufacturing Policy for more information

## MAST® POURITE™

Anti-bubble Agent for Agar Based Media.

MP1A	MAST® POURITE™		60ml
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# Culture Media & Supplements

Order No	Product	Usage	Packsize
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## SELECTIVE SUPPLEMENTS

**MAST® SELECTATAB and MAST® SELECTAVIAL lyophilised supplements in tablets and vials for the preparation of selective, differential or enrichment media.**

MS22	Burkholderia cepacia Selectatab	1 tab per 100ml	25 tablets
SV22	Burkholderia cepacia Selectavial	1 vial per 500ml	10 vials
MS31/NCE	C.E.M.O. 1 Selectatab	1 tab per 100ml	25 tablets
MS32/NCE	C.E.M.O. 2 Selectatab	1 tab per 100ml	25 tablets
MS60/NCE	C.E.M.O Supplement Selectatab	1 tab per 500ml	10 tablets
MS26	Camp Selectatab (Modified Butzler)	1 tab per 500ml	10 tablets
MS18	Camp Selectatab (Preston Blood Free)	1 tab per 250ml	25 tablets
SV61	Campylobacter Growth Supplement	1 vial per 1.125 litres	10 vials
SV59	Campylobacter Selective Supplement	1 vial per 1.125 litre	10 vials
SV54	Chloramphenicol Selectavial	1 vial per 500ml	10 vials
SV16	G.C. Growth Selectavial	1 vial per litre	10 vials
SV20	G.C. Selectavial (L.C.A.T.)	1 vial per litre	10 vials
SV6	G.C. Selectavial (V.C.N.T.)	1 vial per litre	10 vials
SV5	G.C. Selectavial (V.C.T.)	1 vial per litre	10 vials
MS15	Gardnerella Selectatab	1 tab per 250ml	25 tablets
MS27	Haemophilus Selectatab (Bacitracin)	1 tab per 100ml	25 tablets
SV27	Haemophilus Selectavial (Bacitracin)	1 vial per litre	10 vials
SV35	Legionella Growth Supplement (L-CYS)	1 vial per 500ml	10 vials
SV36	Legionella Selectavial (MWY)	1 vial per 500ml	10 vials
SV37	Legionella Selectavial (PNV)	1 vial per 500ml	10 vials
MS24	Mycobacteria Selectatab (Kirchner)	1 tab per 500ml	10 tablets
SV82	NAD Selectavial	1 vial per litre	10 vials
SV9	Nalidixic Acid Selectavial	1 vial per litre	10 vials
MS8A	Neomycin Selectatab	1 tab per 500ml	10 tablets
SV40	Sputagest Selectavial	1 vial per 100ml	10 vials
SV8	Neomycin Selectavial	1 vial per 100ml	10 vials



**Supplements not listed here may be available to custom manufacture in either MAST® SELECTATAB or MAST® SELECTAVIAL format. Please refer to MAST Custom Manufacturing Policy for more information**

# Miscellaneous Laboratory Products

Order No	Product	Packsize
<b>DETECTION OF BACTERIURIA</b>		
BTR1	MAST® BACTERURITEST Strips (5 × 200 sterile strips/pack)	1 pack
DM110D	C.L.E.D. Medium	500g
DM111D	C.L.E.D. Medium with Andrade's Indicator	500g

## PRESERVATION & STORAGE OF BACTERIA

### CRYOBANK®

#### Bacterial Preservation and Storage System

CRYO80/R	80 vials of red beads	1 box
CRYO80/B	80 vials of blue beads	1 box
CRYO80/Y	80 vials of yellow beads	1 box
CRYO80/G	80 vials of green beads	1 box
CRYO80/M	80 vials of mixed beads (16 of each colour)	1 box
CRYO80/BOX	Cryobank Box	1 box
CRYO/Z	18 well CRYOBLOCK	1

# Identification Products

Order No	Product	Packsize
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## IDENTIFICATION OF CAMPYLOBACTER SPP.

CAMP-ID	MAST® ID CAMP IDENTIFICATION SYSTEM A 3 test system for the presumptive identification of thermophilic <i>Campylobacter spp.</i>	10 tests
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**Available to Special Order. Lead time 6-8 weeks**

## LATEX TESTS AND ASSOCIATED PRODUCTS

RST7001	MAST Toxoreagent- Toxoplasma test Complete kit for detection of Toxoplasma antibody comprising latex suspension, buffer and positive control serum.	50 tests
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## RAPID DETECTION OF $\beta$ -LACTAMASE PRODUCTION

ETO/1	MAST® ID Intralactam Strips	25 strips
D59	Nitrocefin Discs	50

## MAST® ID IDENTIFICATION STRIPS

ETO4	MAST® ID Oxidase Strips - for the performance of the oxidase reaction	25 strips
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## IDENTIFICATION OF HAEMOPHILUS SPP.

MID/XV	MAST® ID XV Mirror ring. MASTRING-S® containing X+V factor tips.	50 rings
D43	X Factor Discs in vials	100 tests
D43C	X Factor Discs in cartridges	250 tests
D44	V Factor Discs in vials	100 tests
D44C	V Factor Discs in cartridges	250 tests
D45	X+V Factor Discs in vials	100 tests
D45C	X+V Factor Discs in cartridges	250 tests
DM184D	Peptone Agar	500g

## IDENTIFICATION OF NON-SPORING ANAEROBES

MID8	MASTRING® for identification of Gram negative non-sporing anaerobes.	50 rings
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## IDENTIFICATION OF STAPHYLOCOCCUS SPP.

SV78/3ML	Plasma Coagulase-EDTA	10 × 3ml
SV78/20ML	Plasma Coagulase-EDTA	6 × 20ml

## IDENTIFICATION OF MRSA

RST501	MAST® ALEX-MRSA Rapid Latex Test for the detection of Methicillin resistant <i>Staphylococcus aureus</i>	48 Tests
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# Identification Products

Order No	Product		Packsizes
<b>MASTDISCS® IDENTIFICATION DISCS IN VIALS</b>		<b>Identification of:</b>	<b>For presumptive</b>
			<b>Tests/Pack</b>
D40	Bacitracin Discs (0.04i.u.)	Group A streptococci	100
D41	Bacitracin Discs (0.1i.u.)	Group A streptococci	100
D42	Optochin Discs	<i>Strep. pneumoniae</i>	100
D43	X Factor Discs	<i>Haemophilus</i> spp.	100
D44	V Factor Discs	<i>Haemophilus</i> spp.	100
D45	X+V Factor Discs	<i>Haemophilus</i> spp.	100
D46	Metronidazole Discs	<i>Gardnerella vaginalis</i>	100
D48	Lysostaphin Discs	Staphylococci/micrococci	50
D57	Oxidase Discs	<i>Pseudomonas</i> spp.	100
D59	Nitrocefin Discs	β lactamase Detection	50

<b>MASTDISCS® ID IDENTIFICATION DISCS IN CARTRIDGES</b>		<b>Identification of:</b>	<b>For presumptive</b>
			<b>Tests/Pack</b>
D40C	Bacitracin Discs (0.04i.u.)	Group A streptococci	250
D41C	Bacitracin Discs (0.1i.u.)	Group A streptococci	250
D42C	Optochin Discs	<i>Strep.pneumoniae</i>	250
D43C	X Factor Discs	<i>Haemophilus</i> spp.	250
D44C	V Factor Discs	<i>Haemophilus</i> spp.	250
D45C	X+V Factor Discs	<i>Haemophilus</i> spp.	250
D46C	Metronidazole Discs	<i>Gardnerella vaginalis</i>	250
D47C	Sulphathiazole Discs	<i>Gardnerella vaginalis</i>	250
D51C	Nitrate Discs	Nitrate Reductase in anaerobes	250
D57C	Oxidase Discs	<i>Pseudomonas</i> spp.	250
D71C	MAST® CAT-ID	Carbapenemase producers	250

## MASTDISCS® Combi

### COMBINATION DISC SETS FOR THE DETECTION OF ANTIBIOTIC RESISTANCE

D52C	Extended Spectrum β Lactamase Set (CPD 30)	ESBL	50 tests
D62C	Cefotaxime 30 & Cefotaxime 30/Clavulanic Acid 10	ESBL	150 tests
D63C	Cefepime 30 & Cefepime 30/Clavulanic Acid 10	ESBL	150 tests
D64C	Ceftazidime 30 & Ceftazidime 30/Clavulanic Acid 10	ESBL	150 tests
D66C	Cefpodoxime 10 & Cefpodoxime 10/Clavulanic Acid 1	ESBL	150 tests
D67C	Extended Spectrum β Lactamase Set (CPD10)	ESBL	50 tests
D68C	AmpC & ESBL Detection Set	AmpC/ESBL	50 tests
D69C	AmpC Detection Set	AmpCs	50 tests
D72C	AmpC, ESBL & Carbapenemase Detection Disc Set	AmpC/ESBLs/Carba	50 tests
D73C	MAST® Carba plus	MBL/KPC/OXA	50 tests
D76C	ESBL Detection Set (EUCAST)	ESBL	50 tests

#### Additional carbapenemase screening and identification tests

D71C	MAST® CAT-ID - For presumptive identification of carbapenemase production	250 tests
D74	MAST® ICT - screening test for the detection of carbapenemase production in Enterobacterales, <i>Pseudomonas</i> and <i>Acinetobacter</i> spp.	25 tests
TEM30C	To aid presumptive identification of OXA-48	5 × 50 discs

### RAPID CARBAPENEMASE DETECTION

DNA/LYO5	Rapid molecular carbapenemase detection in Enterobacterales, <i>Pseudomonas</i> spp. and <i>Acinetobacter</i> spp.	10 tests
PACE-ID	Colorimetric test for the rapid detection of carbapenemase producing <i>Pseudomonas</i> spp., <i>Acinetobacter</i> spp. and Enterobacterales.	48 tests

# Identification Products

Order No	Product	Mechanism	Tests/Pack
<b>IDENTIFICATION OF MRSA</b>			
STOX	Oxacillin Strips (50 per tin) (this product is a direct replacement for STMT methicillin strips)		1 tin
MS29	MRSA (Oxacillin) Selectatab™		25 × 100ml tabs
OX1	Oxacillin Susceptibility Discs in Vials		99+/- 2 discs/vial
OX1C	Oxacillin Susceptibility Discs in Cartridges		5 × 50 discs
FOX10	Cefoxitin Susceptibility Discs in Vials		99+/- 2 discs/vial
FOX10C	Cefoxitin Susceptibility Discs in Cartridges		5 × 50 discs
TAB/OX0.2	Oxacillin 0.4 ADATAB®		25 × 100ml tabs
TAB/FOX0.4	Cefoxitin 0.4 ADATAB®		25 × 100ml tabs
DM160D	Mannitol Salt Agar		500g
DM170D	Mueller Hinton Agar		500g
DM115D	Columbia Agar		500g

# Bacterial Agglutinating Antisera

Order No

Product

Packsizes

## MAST<sup>®</sup> ASSURE

### E. COLI O ANTISERA - MONOVALENT

#### Stock items

M12014	<i>Escherichia coli</i> O26	2ml
M12017	<i>Escherichia coli</i> O119	2ml
M12030	<i>Escherichia coli</i> O157	2ml
M12013	<i>Escherichia coli</i> O1	2ml
M12020	<i>Escherichia coli</i> O44	2ml
M12034	<i>Escherichia coli</i> O78	2ml
M12035	<i>Escherichia coli</i> O148	2ml
M12036	<i>Escherichia coli</i> O159	2ml
M12039	<i>Escherichia coli</i> O25	2ml
M12041	<i>Escherichia coli</i> O153	2ml
M12043	<i>Escherichia coli</i> O8	2ml
M12047	<i>Escherichia coli</i> O28ac	2ml
M12048	<i>Escherichia coli</i> O112ac	2ml
M12049	<i>Escherichia coli</i> O124	2ml
M12050	<i>Escherichia coli</i> O136	2ml
M12051	<i>Escherichia coli</i> O144	2ml
M12053	<i>Escherichia coli</i> O143	2ml
M12054	<i>Escherichia coli</i> O152	2ml
M12055	<i>Escherichia coli</i> O164	2ml
M15772/NCE	<i>Escherichia coli</i> O103	2ml
M15796/NCE	<i>Escherichia coli</i> O145	2ml

### E. COLI O ANTISERA MONOVALENT

#### Lead time 8 weeks

M12022	<i>Escherichia coli</i> O125	2ml
M12023	<i>Escherichia coli</i> O126	2ml
M12025	<i>Escherichia coli</i> O166	2ml
M12029	<i>Escherichia coli</i> O151	2ml
M12031	<i>Escherichia coli</i> O158	2ml
M12045	<i>Escherichia coli</i> O115	2ml
M12052	<i>Escherichia coli</i> O29	2ml
M12024	<i>Escherichia coli</i> O146	2ml
M12033	<i>Escherichia coli</i> O27	2ml
M12037	<i>Escherichia coli</i> O168	2ml
M12038	<i>Escherichia coli</i> O20	2ml
M12040	<i>Escherichia coli</i> O63	2ml
M12042	<i>Escherichia coli</i> O167	2ml
M12044	<i>Escherichia coli</i> O15	2ml
M12046	<i>Escherichia coli</i> O169	2ml
M12015	<i>Escherichia coli</i> O86a	2ml
M12016	<i>Escherichia coli</i> O111	2ml
M12018	<i>Escherichia coli</i> O127a	2ml
M12019	<i>Escherichia coli</i> O128	2ml
M12021	<i>Escherichia coli</i> O55	2ml
M12026	<i>Escherichia coli</i> O18	2ml
M12027	<i>Escherichia coli</i> O114	2ml
M12028	<i>Escherichia coli</i> O142	2ml
M12032	<i>Escherichia coli</i> O6	2ml
M15789/NCE	<i>Escherichia coli</i> O121	NO CE MARK
M15802/NCE	<i>Escherichia coli</i> O161	NO CE MARK
M15819/NCE	<i>Escherichia coli</i> O165	NO CE MARK
M15758/NCE	<i>Escherichia coli</i> O74	NO CE MARK
M15765/NCE	<i>Escherichia coli</i> O91	NO CE MARK

# Bacterial Agglutinating Antisera

Order No	Product	Packsize
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## MAST<sup>®</sup> ASSURE

### ESCHERICHIA COLI O ANTISERA - POLYVALENT

#### Stock items

M14263	<i>Escherichia coli</i> POLY 2 Factors O26, O55, O111, O119, O126	2ml
M14270	<i>Escherichia coli</i> POLY 3 Factors O86, O114, O125, O127, O128	2ml
M14287	<i>Escherichia coli</i> POLY 4 Factors O44, O112, O124, O142	2ml
M12005	<i>Escherichia coli</i> POLY D1 (O1, O26, O86a, O111, O119, O127a, O128)	2ml
M12006	<i>Escherichia coli</i> POLY D2 (O44, O55, O125, O126, O146, O166)	2ml
M12007	<i>Escherichia coli</i> POLY D3 (O18, O114, O142, O151, O157, O158)	2ml
M12008	<i>Escherichia coli</i> POLY D4 (O6, O27, O78, O148, O159, O168)	2ml
M12009	<i>Escherichia coli</i> POLY D5 (O20, O25, O63, O153, O167)	2ml
M12010	<i>Escherichia coli</i> POLY D6 (O8, O15, O115, O169)	2ml
M12011	<i>Escherichia coli</i> POLY D7 (O28ac, O112ac, O124, O136, O144)	2ml
M12012	<i>Escherichia coli</i> POLY D8 (O29, O143, O152, O164)	2ml

### ESCHERICHIA COLI O ANTISERA - POLYVALENT

#### Lead time 8 weeks

M15741/NCE	<i>E.coli</i> POLY D9 (O74, O91, O103, O121, O145, O161, O165)	NO CE MARK	2ml
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### E.COLI H ANTISERA MONOVALENT

#### Stock items

M12060	<i>Escherichia coli</i> H-7	5ml
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### ESCHERICHIA COLI H ANTISERA MONOVALENT

#### Lead time 8 weeks

M12056	<i>Escherichia coli</i> H-2	5ml
M12057	<i>Escherichia coli</i> H-4	5ml
M12058	<i>Escherichia coli</i> H-5	5ml
M12059	<i>Escherichia coli</i> H-6	5ml
M12061	<i>Escherichia coli</i> H-9	5ml
M12062	<i>Escherichia coli</i> H-10	5ml
M12063	<i>Escherichia coli</i> H-11	5ml
M12064	<i>Escherichia coli</i> H-12	5ml
M12065	<i>Escherichia coli</i> H-16	5ml
M12066	<i>Escherichia coli</i> H-18	5ml
M12067	<i>Escherichia coli</i> H-19	5ml
M12068	<i>Escherichia coli</i> H-20	5ml
M12069	<i>Escherichia coli</i> H-21	5ml
M12070	<i>Escherichia coli</i> As H-27	5ml
M12071	<i>Escherichia coli</i> As H-28	5ml
M12072	<i>Escherichia coli</i> As H-34	5ml
M12073	<i>Escherichia coli</i> As H-40	5ml
M12074	<i>Escherichia coli</i> As H-41	5ml
M12075	<i>Escherichia coli</i> AS H-42	5ml
M12076	<i>Escherichia coli</i> As H-45	5ml
M12077	<i>Escherichia coli</i> As H-51	5ml

### TOXIGENIC ESCHERICHIA COLI PILI ANTISERA

#### Lead time 8 weeks

M11601/NCE	Toxigenic <i>Escherichia coli</i> Pili Antisera Set This set consists of the following K88, K99 and 987P	NO CE MARK	5ml x 3
M11602/NCE	<i>Escherichia coli</i> K88	NO CE MARK	5ml
M11603/NCE	<i>Escherichia coli</i> K99	NO CE MARK	5ml
M11604/NCE	<i>Escherichia coli</i> 987P	NO CE MARK	5ml

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### HAEMOPHILUS INFLUENZAE ANTISERA

Lead time 8 weeks

Haemophilus influenzae type listed below

M11302	<i>Haemophilus influenzae</i> Type a	2ml
M11303	<i>Haemophilus influenzae</i> Type b	2ml
M11304	<i>Haemophilus influenzae</i> Type c	2ml
M11305	<i>Haemophilus influenzae</i> Type d	2ml
M11306	<i>Haemophilus influenzae</i> Type e	2ml
M11307	<i>Haemophilus influenzae</i> Type f	2ml

### SALMONELLA O ANTISERA - MONOVALENT

Stock items

M10310	<i>Salmonella</i> O Factor O 2	2ml
M10311	<i>Salmonella</i> O Factor O 4	2ml
M10321	<i>Salmonella</i> O Factor O 6,14	2ml
M10312	<i>Salmonella</i> O Factor O 7	2ml
M10313	<i>Salmonella</i> O Factor O 8	2ml
M10314	<i>Salmonella</i> O Factor O 9	2ml
M10326	<i>Salmonella</i> O Factor Vi	2ml
M10315	<i>Salmonella</i> O Factor O9,46	2ml
M10316	<i>Salmonella</i> O Factor O1, 3,10	2ml
M10318	<i>Salmonella</i> O Factor O1,3,19	2ml
M10319	<i>Salmonella</i> O Factor O11	2ml
M10320	<i>Salmonella</i> O Factor O13	2ml
M10323	<i>Salmonella</i> O Factor O18	2ml
M10324	<i>Salmonella</i> O Factor O21	2ml

### SALMONELLA O ANTISERA - MONOVALENT

Lead time 8 weeks

M10322	<i>Salmonella</i> O Factor O16	2ml	
M92575/NCE	<i>Salmonella</i> O Factor O17	NO CE MARK	2ml
M92582/NCE	<i>Salmonella</i> O Factor O28	NO CE MARK	2ml
M10325	<i>Salmonella</i> O Factor O35	2ml	
M92599/NCE	<i>Salmonella</i> O Factor O39	NO CE MARK	2ml

### SALMONELLA O ANTISERA - POLYVALENT

Stock items

M10308	POLY O Factor O2, O4, O7, O8, O9, O9, 46, O3, 10 and O1,3,19	2ml
M10309	POLY O1 Factor O11, O13, O6, 14, O16, O18, O21 and O35	2ml
M14294	POLY O A-G	2ml
M14300	POLY O A-S	2ml
M92537	Omnivalent (Kauffmann-White group A-067)	2ml



# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### SALMONELLA H ANTISERA - MONOVALENT

#### Stock items

M10327	<i>Salmonella</i> H Factor a	2ml
M10328	<i>Salmonella</i> H Factor b	2ml
M10329	<i>Salmonella</i> H Factor c	2ml
M10330	<i>Salmonella</i> H Factor d	2ml
M10331	<i>Salmonella</i> H Factor e, h	2ml
M10332	<i>Salmonella</i> H Factor G	2ml
M14335	<i>Salmonella</i> H Factor E	2ml
M10333	<i>Salmonella</i> H Factor i	2ml
M10344	<i>Salmonella</i> H Factor 2	2ml
M10345	<i>Salmonella</i> H Factor 5	2ml
M10346	<i>Salmonella</i> H Factor 6	2ml
M10364	<i>Salmonella</i> H Factor f	2ml
M10365	<i>Salmonella</i> H Factor m	2ml
M10366	<i>Salmonella</i> H Factor p	2ml
M10367	<i>Salmonella</i> H Factor q	2ml
M10368	<i>Salmonella</i> H Factor s	2ml
M10369	<i>Salmonella</i> H Factor t	2ml
M10335	<i>Salmonella</i> H Factor L	2ml
M10337	<i>Salmonella</i> H Factor y	2ml
M10340	<i>Salmonella</i> H Factor v	2ml
M10341	<i>Salmonella</i> H Factor w	2ml
M10342	<i>Salmonella</i> H Factor z13	2ml
M10343	<i>Salmonella</i> H Factor z28	2ml
M10347	<i>Salmonella</i> H Factor 7	2ml
M10348	<i>Salmonella</i> H Factor z6	2ml
M10370	<i>Salmonella</i> H Factor u	2ml
M10372	<i>Salmonella</i> H Factor z23	2ml
M10373	<i>Salmonella</i> H Factor z24	2ml
M10376	<i>Salmonella</i> H Factor x	2ml
M10377	<i>Salmonella</i> H Factor a	2ml
M10379	<i>Salmonella</i> H Factor z4	2ml
M10334	<i>Salmonella</i> H Factor k	2ml
M10336	<i>Salmonella</i> H Factor r	2ml

### SALMONELLA H ANTISERA - MONOVALENT

#### Lead time 8 weeks

M91882/NCE	<i>Salmonella</i> H Factor g, p	NO CE MARK	5ml
M10338	<i>Salmonella</i> H Factor e, n		2ml
M10378	<i>Salmonella</i> H Factor z		2ml
M10380	<i>Salmonella</i> H Factor z10		2ml
M10374	<i>Salmonella</i> H Factor z32		2ml
M10381	<i>Salmonella</i> H Factor z29		2ml

### SALMONELLA H ANTISERA - POLYVALENT

#### Stock items

M14317	POLYVALENT PHASE 1 & 2 (a-z29)	2ml
M10339	POLYVALENT PHASE 2 (H-1)	2ml
M14324	RAPID DIAGNOSTIC 1 Factors b, d, E, r	2ml
M14331	RAPID DIAGNOSTIC 2 Factors b, E, k, l	2ml
M14348	RAPID DIAGNOSTIC 3 Factors d, E, G, k	2ml

# Bacterial Agglutinating Antisera

Order No

Product

Packsizes

## MAST<sup>®</sup> ASSURE

### SALMONELLA H GROUP PHASE INDUCTION

Lead time 8 weeks

M10361/NCE	<i>Salmonella</i> Phase H 1	NO CE MARK	5ml
M10352/NCE	<i>Salmonella</i> Phase H d	NO CE MARK	5ml
M10353/NCE	<i>Salmonella</i> Phase H e, h	NO CE MARK	5ml
M10360/NCE	<i>Salmonella</i> Phase H e, n	NO CE MARK	5ml
M10355/NCE	<i>Salmonella</i> Phase H i	NO CE MARK	5ml
M10357/NCE	<i>Salmonella</i> Phase H L	NO CE MARK	5ml
M10358/NCE	<i>Salmonella</i> Phase H r	NO CE MARK	5ml
M10359/NCE	<i>Salmonella</i> Phase H y	NO CE MARK	5ml
M10350/NCE	<i>Salmonella</i> Phase H b	NO CE MARK	5ml
M10356/NCE	<i>Salmonella</i> Phase H k	NO CE MARK	5ml
M10383/NCE	<i>Salmonella</i> Phase H z4	NO CE MARK	5ml
M10391/NCE	<b>Salmonella Phase Induction Set</b> This set consists of a, b, c, d, eh, G, I, k, L, r, y, en, 1, z, z4, z10, z29	NO CE MARK	5ml × 17

### SHIGELLA ANTISERA - MONOVALENT

Stock items

M10116	<i>Shigella dysenteriae</i>	Type 1	2ml
M10126	<i>Shigella flexneri</i>	Type I	2ml
M10127	<i>Shigella flexneri</i>	Type II	2ml
M10128	<i>Shigella flexneri</i>	Type III	2ml
M10129	<i>Shigella flexneri</i>	Type IV	2ml
M10130	<i>Shigella flexneri</i>	Type V	2ml
M10131	<i>Shigella flexneri</i>	Type VI	2ml
M10132	<i>Shigella flexneri</i>	Group (3) 4	2ml
M10133	<i>Shigella flexneri</i>	Group 6	2ml
M10134	<i>Shigella flexneri</i>	Group 7 (8)	2ml
M10136	<i>Shigella boydii</i>	Type 2	2ml
M10150	<i>Shigella sonnei</i>	Phase I	2ml
M10151	<i>Shigella sonnei</i>	Phase II	2ml
M10137	<i>Shigella boydii</i>	Type 3	2ml



# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### SHIGELLA ANTISERA - MONOVALENT

Lead time 8 weeks

M10117	<i>Shigella dysenteriae</i>	Type 2	2ml
M10119	<i>Shigella dysenteriae</i>	Type 4	2ml
M10118	<i>Shigella dysenteriae</i>	Type 3	2ml
M10120	<i>Shigella dysenteriae</i>	Type 5	2ml
M10121	<i>Shigella dysenteriae</i>	Type 6	2ml
M10122	<i>Shigella dysenteriae</i>	Type 7	2ml
M10123	<i>Shigella dysenteriae</i>	Type 8	2ml
M10124	<i>Shigella dysenteriae</i>	Type 9	2ml
M10125	<i>Shigella dysenteriae</i>	Type 10	2ml
M10152	<i>Shigella dysenteriae</i>	Type 11	2ml
M10153	<i>Shigella dysenteriae</i>	Type 12	2ml
M10135	<i>Shigella boydii</i>	Type 1	2ml
M10138	<i>Shigella boydii</i>	Type 4	2ml
M10139	<i>Shigella boydii</i>	Type 5	2ml
M10140	<i>Shigella boydii</i>	Type 6	2ml
M10141	<i>Shigella boydii</i>	Type 7	2ml
M10142	<i>Shigella boydii</i>	Type 8	2ml
M10143	<i>Shigella boydii</i>	Type 9	2ml
M10144	<i>Shigella boydii</i>	Type 10	2ml
M10145	<i>Shigella boydii</i>	Type 11	2ml
M10146	<i>Shigella boydii</i>	Type 12	2ml
M10147	<i>Shigella boydii</i>	Type 13	2ml
M10148	<i>Shigella boydii</i>	Type 14	2ml
M10149	<i>Shigella boydii</i>	Type 15	2ml
M10155	<i>Shigella boydii</i>	Type 16	2ml
M10156	<i>Shigella boydii</i>	Type 17	2ml
M10157	<i>Shigella boydii</i>	Type 18	2ml

### SHIGELLA ANTISERA - POLYVALENT

Stock item

M10109	<i>S.dysenteriae</i> POLY A	Types 1, 2, 3, 4, 5, 6, 7	2ml
M10110	<i>S.dysenteriae</i> POLY A1	Types 8, 9, 10, 11, 12	2ml
M10111	<i>S.flexneri</i> POLY B	Types I, II, III, IV, V, VI, Groups (3) 4, 6, 7 (8)	2ml
M10112	<i>S.boydii</i> POLY C	Types 1, 2, 3, 4, 5, 6, 7	2ml
M10113	<i>S.boydii</i> POLY C1	Types 8, 9, 10, 11	2ml
M10114	<i>S.boydii</i> POLY C2	Types 12, 13, 14, 15	2ml
M10154	<i>S.boydii</i> POLY C3	Types 16, 17, 18	2ml
M10115	<i>S.sonnei</i> POLY D	Phase I & II	2ml

### VIBRIO ANTISERA

Stock items

M11002	<i>Vibrio cholerae</i> POLY (INABA, OGAWA)		2ml
M11003	<i>Vibrio cholerae</i> INABA		2ml
M11004	<i>Vibrio cholerae</i> OGAWA		2ml
M15001	<i>Vibrio cholerae</i> O139 (Bengal)		2ml

### BORDETELLA ANTISERA

Lead time 8 weeks

M11501/NCE	BORDETELLA PERTUSSIS ANTISERA	NO CE MARK	2ml
	This antiserum agglutinates Phase I <i>B.pertussis</i> but does not agglutinate Phase III <i>B.pertussis</i> , <i>B.parapertussis</i> , nor <i>B.bronchiseptica</i> .		

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### LEGIONELLA ANTISERA

#### Stock items

M11702	<i>Legionella pneumophila</i> Group. 1		2ml
M11703	<i>Legionella pneumophila</i> Group. 2		2ml
M11704	<i>Legionella pneumophila</i> Group. 3		2ml
M11705	<i>Legionella pneumophila</i> Group. 4		2ml
M11706	<i>Legionella pneumophila</i> Group. 5		2ml
M11707	<i>Legionella pneumophila</i> Group. 6		2ml
M15727/NCE	<i>Legionella pneumophila</i> Group. 7	NO CE MARK	2ml
M15734/NCE	<i>Legionella pneumophila</i> Group. 8	NO CE MARK	2ml
M93572/NCE	<i>Legionella pneumophila</i> Group.9	NO CE MARK	2ml
M93589/NCE	<i>Legionella pneumophila</i> Group. 10	NO CE MARK	2ml
M93626/NCE	<i>Legionella pneumophila</i> Group. 11	NO CE MARK	2ml
M93633/NCE	<i>Legionella pneumophila</i> Group. 12	NO CE MARK	2ml
M93640/NCE	<i>Legionella pneumophila</i> Group. 13	NO CE MARK	2ml
M93657/NCE	<i>Legionella pneumophila</i> Group. 14	NO CE MARK	2ml
M93664/NCE	<i>Legionella pneumophila</i> Group. 15	NO CE MARK	2ml
M11708	<i>Legionella bozemanii</i> Antisera		2ml
M11711	<i>Legionella micdadei</i> Antisera		2ml
M11710	<i>Legionella gormanii</i> Antisera		2ml
M11709	<i>Legionella dumoffii</i> Antisera		2ml

### LISTERIA ANTISERA

#### Stock items

M14379	Listeria O I/II antiserum		2ml
M14386	Listeria O I antiserum		2ml
M14393	Listeria O IV antiserum		2ml
M14409	Listeria O V/VI antiserum		2ml
M14416	Listeria O VI antiserum		2ml
M14423	Listeria O VII antiserum		2ml
M14430	Listeria O VIII antiserum		2ml
M14447	Listeria O IX antiserum		2ml
M14454	Listeria H-A antiserum		5ml
M14461	Listeria H-AB antiserum		5ml
M14478	Listeria H-C antiserum		5ml
M14485	Listeria H-D antiserum		5ml



# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### HAEMOLYTIC STREPTOCOCCUS GROUP-A TYPING ANTISERA

Lead time 8 weeks

M10510/NCE	Group-A Strept. Poly T: 1, 3, 13, B3264	NO CE MARK	2ml
M10511/NCE	Group-A Strept. Poly U: 2,4,6, 28	NO CE MARK	2ml
M10512/NCE	Group-A Strept. Poly W: 5/27/44, 11, 12	NO CE MARK	2ml
M10513/NCE	Group-A Strept. Poly X: 8, 14/49, 25, Imp19	NO CE MARK	2ml
M10514/NCE	Group-A Strept. Poly Y	NO CE MARK	2ml
M10515/NCE	Group-A Strept. T 1	NO CE MARK	2ml
M10516/NCE	Group-A Strept. T 2	NO CE MARK	2ml
M10523/NCE	Group-A Strept. T 11	NO CE MARK	2ml
M10524/NCE	Group-A Strept. T 12	NO CE MARK	2ml
M10525/NCE	Group-A Strept. T 13	NO CE MARK	2ml
M10526/NCE	Group-A Strept. T 14/49	NO CE MARK	2ml
M10527/NCE	Group-A Strept. T 18	NO CE MARK	2ml
M10528/NCE	Group-A Strept. T 22	NO CE MARK	2ml
M10529/NCE	Group-A Strept. T 23	NO CE MARK	2ml
M10530/NCE	Group-A Strept. T 25	NO CE MARK	2ml
M10531/NCE	Group-A Strept. T 28	NO CE MARK	2ml
M10517/NCE	Group-A Strept. T 3	NO CE MARK	2ml
M10518/NCE	Group-A Strept. T 4	NO CE MARK	2ml
M10519/NCE	Group-A Strept. T 5/27/44	NO CE MARK	2ml
M10520/NCE	Group-A Strept. T 6	NO CE MARK	2ml
M10521/NCE	Group-A Strept. T 8	NO CE MARK	2ml
M10522/NCE	Group-A Strept. T 9	NO CE MARK	2ml
M10532/NCE	Group-A Strept. T B3264	NO CE MARK	2ml
M10533/NCE	Group-A Strept. T Imp19	NO CE MARK	2ml

### YERSINIA ENTEROCOLITICA O-GROUPING ANTISERA

Stock items

M11102	<i>Yersinia enterocolitica</i> Polyvalent Group O1, O2 Mixture	2ml
M11103	<i>Yersinia enterocolitica</i> Polyvalent Group O3	2ml
M11104	<i>Yersinia enterocolitica</i> Polyvalent Group O5	2ml
M11105	<i>Yersinia enterocolitica</i> Polyvalent Group O9	2ml
M11106	<i>Yersinia enterocolitica</i> Polyvalent Group O8	2ml

# Bacterial Agglutinating Antisera

Order No      Product      Packsize

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## **MAST** ASSURE

### **YERSINIA PSEUDOTUBERCULOSIS ANTISERA**

Lead time 8 weeks

M11801/NCE	<i>Yersinia pseudotuberculosis</i> Grouping Antisera Set This set consists of: Group 1~6 <i>Yersinia pseudotuberculosis</i> Group listed below	No CE Mark	2ml × 6
M11802/NCE	<i>Yersinia pseudotuberculosis</i> Group 1	No CE Mark	2ml
M11803/NCE	<i>Yersinia pseudotuberculosis</i> Group 2	No CE Mark	2ml
M11804/NCE	<i>Yersinia pseudotuberculosis</i> Group 3	No CE Mark	2ml
M11805/NCE	<i>Yersinia pseudotuberculosis</i> Group 4	No CE Mark	2ml

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### **RDE (II) RECEPTOR DESTROYING ENZYME**

370013	RDE (II) Receptor Destroying Enzyme For use in the serodiagnosis test of Influenza virus	20ml × 5
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# Veterinary Tests

Order No	Product	Packsize
<b>EIKEN TESTS Available from stock</b>		
V-SZ11/NCE	RUO LZ TEST EIKEN SAA	4 × 20ml
V-SZ12/NCE	RUO LZ-SAA Calibrator EIKEN	6 × 1ml
V-SZ13/NCE	RUO QC-SAA L EIKEN	5 × 2ml
V-SZ14/NCE	RUO QC-SAA H EIKEN	5 × 2ml
V-SZ51/NCE	VET-SAA "Eiken" Reagent	
	R1	2 × 20mL
	R2	2 × 20mL
V-SZ90/NC	VET-SAA Calibrator Set	
	Calibrator	5 × 1mL
	Lysis buffer	1 × 12m
V-SZ91/NCE	VET-SAA-QC-Low	
	Low Calibrator	5 × 1mL
	Lysis buffer	1 × 12m
V-SZ92/NCE	VET-SAA-QC-High	
	High Calibrator	5 × 1mL
	Lysis buffer	1 × 12m

## MAST VETERINARY PATHOGEN IDENTIFICATION PRODUCTS

RST7001	MAST TOXOREAGENT - Toxoplasma test, Complete kit for detection of Toxoplasma antibody comprising latex suspension, buffer and positive control serum.	50 tests
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## MASTDISCS<sup>®</sup> AST ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES AND VIALS

### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS

Antibiotic & Strength µg per disc (unless otherwise stated)

CEQ30C/NCE	Cefquinome 30	5 × 50 discs
CPZ30C/NCE	Cefoperazone 30	5 × 50 discs
ENF5C/NCE	Enrofloxacin 5	5 × 50 discs
FFC30C/NCE	Florenfenicol 30	5 × 50 discs
GAM15C/NCE	Gamithromycin 15	5 × 50 discs
MAR5C/NCE	Marbofloxacin 5	5 × 50 discs
NE30C/NCE	Neomycin 30	5 × 50 discs
PRA5C/NCE	Pradofloxacin 5	5 × 50 discs
TIP60C/NCE	Tildipirison 60	5 × 50 discs
TY30C/NCE	Tylosin 30	5 × 50 discs

### MASTDISCS<sup>®</sup> in Cartridges (5 × 50 discs per pack)

STOCKCART	Stock Susceptibility Cartridge Discs of a single type	1 pack
FUNGCART	Stock Antifungal Cartridge Discs of a single type	1 pack
SPECIALCART	Cartridge Discs made to special order*	Min 18 packs

### MASTDISCS<sup>®</sup> in vials (100 discs per vial)

STOCKDISC	Stock Susceptibility Discs of a single type	1 vial
SPECIALDISC	Discs made to special order*	Min 22 packs
TOOL/C	*Set up charge for Special Discs in vials or cartridges A one off charge for customisation of each new specification	per new specification

### MASTRING-S<sup>®</sup> (6 or 8 tipped, 100 rings per tin)

MASTRING	MASTRING-S <sup>®</sup> to individual specification.	10-19 tins
SPECIAL	Minimum order 10 tins of 100 rings	
TOOL/M	*Set up charge for MASTRING SPECIAL: a one off charge for customisation of each new letter coded ring	per new

**New Specification NUMBER coded MASTRING-S<sup>®</sup> are subject to an initial minimum order of 10 tins.**  
**New Specification LETTER coded MASTRING-S<sup>®</sup> are subject to an initial minimum order of 20 tins.**  
**Subsequent orders: minimums of 10 tins.**

# Molecular Biology Tests

Order No      Product      Packsize

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## **MAST**ISOPLEX®

### **NUCLEIC ACID DETECTION PRODUCTS**

**Available to Special Order Lead time 6 weeks**

DNA/LYO5	MAST ISOPLEX® CRE ART kit - LAMP kit for molecular detection and characterisation of different strains of Carbapenem-resistant Enterobacterales	10 tests
DNA/LYO1	MAST ISOPLEX® DNA Lyo kit	100 tests
DNA/LYO2	MAST ISOPLEX® DNA Lyo Plus kit	100 tests
DNA/LYO3	MAST ISOPLEX® VTEC kit	20 tests
DNA/LYO4	MAST ISOPLEX® <i>E.coli</i> O157 kit	20 tests

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# Immunodiagnostic Tests

Order No	Product	Packsize
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## EIKEN TESTS

### Available from stock

V-SZ11/NCE	RUO LZ TEST EIKEN SAA	4 x 20ml
V-SZ12/NCE	RUO LZ-SAA Calibrator EIKEN	6 x 1ml
V-SZ13/NCE	RUO QC-SAA L EIKEN	5 x 2ml
V-SZ14/NCE	RUO QC-SAA H EIKEN	5 x 2ml
V-SZ51/NCE	VET-SAA "Eiken" Reagent	
	R1	2 x 20mL
	R2	2 x 20mL
V-SZ90/NC	VET-SAA Calibrator Set	
	Calibrator	5 x 1mL
	Lysis buffer	1 x 12m
V-SZ91/NCE	VET-SAA-QC-Low	
	Low Calibrator	5 x 1mL
	Lysis buffer	1 x 12m
V-SZ92/NCE	VET-SAA-QC-High	
	High Calibrator	5 x 1mL
	Lysis buffer	1 x 12m

# Mast Immunodiagnostic Tests | Infectious Disease

Order No	Product	Packsizes
<b>MASTAFLUOR® IMMUNOFLUORESCENCE TESTS</b>		
<b>All products available to Special Order - Lead time 2-3 weeks</b>		
630522	FTA-ABS-IgG Treponema pallidum complete test kit	10 × 10 tests
630525	FTA-ABS IgM Treponema pallidum complete test kit	10 × 10 tests
640522	FTA-ABS Treponema pallidum slides	10 × 10 wells
620521	FTA-ABS-Antibodies controls IgG positive	0.5 ml
620525	FTA-ABS-Antibodies controls IgM positive	0.5 ml
636325	Mumps-IgM-complete test kit	10 × 5 tests

**Complete test kits contain slides, buffers, controls, mounting medium, conjugate & cover slips**

## MASTAFLUOR® IMMUNOFLUORESCENCE TESTS

**All products available to Special Order - Lead time 2-3 weeks**

631181	Toxoplasma Screen	10 × 5 tests
631182	Toxoplasma Screen	10 × 10 tests
631183	Toxoplasma-IgG-complete test kit	10 × 5 tests
641181	Toxoplasma slides	10 × 5 wells
641182	Toxoplasma slides	10 × 10 wells
621181	Toxoplasma controls IgG positive	0.5 ml
636332	Varicella Zoster-IgG(Herpes Zoster) complete test kit	10 × 5 tests
626256	Varicella Zoster (Herpes Zoster) controls IgM positive	0.5 ml

**Complete test kits contain slides, buffers, controls, mounting medium, conjugate & cover slips**

## MASTAFLUOR® IF ADDITIONAL REAGENTS

**All products available to Special Order- Lead time 2-3 weeks**

<b>Conjugates FITC labeled (ready for use)</b>		
626291	Anti-Human IgG	2.0 ml
626284	Anti-Human IgG	3.0 ml
626283	Anti-Human IgG	10.0 ml
626292	Anti-Human IgM (μ-chain)	2.0 ml
626285	Anti-Human IgM (μ-chain)	3.0 ml
626290	Anti-Human IgG, IgA, IgM	2.0 ml
626286	Anti-Human IgG, IgA, IgM	3.0 ml
<b>Other Reagents</b>		
620100	IFT Serumdiluent	2 × 10 ml
626298	Evans Blue (ready to use)	3.0 ml
626281SO	Sorbent for FTA-ABS	2 × 5ml
626280	Cover Slides (24 × 60 mm)	100 pc
<b>Rheumatic factor IgG absorbent for IgM tests</b>		
651003	MASTSORB	2 ml
<b>Chlamydia Antigen</b>		
695010	Mastazyme Chlamydia Ag	12 x 8 tests
695020	Mastazyme Chlamydia Ag Transport Media	95 tubes
695030	Mastazyme Chlamydia Ag Swabs	100 pc.

**Special prices are available for bulk purchase.**

# Mast Immunodiagnostic Tests | Infectious Disease

Order No	Product	Packsize
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## MASTABLOT® LINEBLOT ASSAYS

All products available to Special Order- Lead time 2-3 weeks

A range of highly specific confirmatory tests to detect antibodies against *Treponema pallidum*

6653G08	MASTABLOT TP ( <i>Treponema pallidum</i> ) IgG	8 tests
6653M08	MASTABLOT TP ( <i>Treponema pallidum</i> )IgM	8 tests

## MASTABLOT® WESTERN BLOT ASSAYS

All products available to Special Order- Lead time 2-3 weeks

Antibody detection for *Borrelia burgdorferi*

665101	MASTABLOT <i>Borellia burgdorferi</i> IgG	8 tests
665102	MASTABLOT <i>Borellia burgdorferi</i> IgM	8 tests

Order No

Product

Packsize

## MASTAFLUOR® IMMUNOFLUORESCENCE TESTS

All products available to Special Order. Lead time 2-3 weeks.

### COMPLETE TEST KITS

contains slides, controls, conjugate, mounting medium and buffer

Order No	Product	Packsize
	<b>HEp-2-Cells</b>	
	Tissue Sections	
606023	ANA/AMA/ASMA/APCA/LKM	10 × 10 tests
606080	ASA/Rabbit Tongue	10 × 5 tests
606064	SKMA	10 × 5 tests
	<b>TISSUE SECTIONS</b>	
	<b>Single Tissues</b>	
	<b>Rabbit Tissue Sections</b>	
616180	Rabbit Tongue	10 × 5 wells
	Rat Tissue Sections	
616175	Rat Striated Muscle	10 × 5 wells
	<b>Combined Tissue Sections</b>	
	<b>Rat Tissue</b>	
616123	Rat Liver/-Kidney/-Stomach	10 × 10 wells

# Mast Immunodiagnostic Tests | Autoimmune

Order No	Product	Packsize
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## MASTAFLUOR® IF CONTROLS

All products available to Special Order. Lead time 2-3 weeks

<b>HEp-2</b>		
626202	HEp-2 pos. speckled	0.5 ml
626203	HEp-2 pos. nucleolar	0.5 ml
626204	HEp-2 pos. centromere	0.5 ml
<b>Crithidia luciliae</b>		
626210	nDNA (dsDNA) positive	0.5 ml
<b>controls</b>		
626220	ANA/AMA/ASMA/APCA (ASMA-positive)	0.5 ml
626221	ANA/AMA/ASMA/APCA (APCA-positive)	0.5 ml
626215	ANA/AMA/ASMA/APCA (AMA-positive)	0.5 ml
626201	ANA/AMA/ASMA/APCA (ANA-pos. homogeneous)	0.5 ml
626271	EmA negative	0.5 ml
626264	SKMA positive	0.5 ml

## MASTAFLUOR® REAGENTS AND BUFFERS

All products available to Special Order. Lead time 2-3 weeks

### CONJUGATES

#### Conjugates FITC labeled (ready for use)

626291	Anti-Human IgG	2.0 ml
626284	Anti-Human IgG	3.0 ml
626283	Anti-Human IgG	10.0 ml
626292	Anti-Human IgM	2.0 ml
626285	Anti-Human IgM	3.0 ml
626290	Anti-Human IgG, IgA, IgM	2.0 ml
626293	Anti-Human IgA	2.0 ml
626287	Anti-Human IgA	3.0 ml

### OTHER REAGENTS

620100	IFT Serumdiluent	100 ml
626297	PBS-buffer ( supplied as a powder - reconstitute in 1 litre H <sub>2</sub> O)	1 bag
626298	Evans Blue	3.0 ml
626280	Cover Slides (24 × 60 mm)	100 pc.
<b>Rheumatic factor, IgG absorbent for IgM tests</b>		
651003	MASTSORB	2 ml

# Mast Immunodiagnostic Tests | Autoimmune

Order No	Product	Packsizes
<b>MASTAZYME® ENZYME IMMUNOASSAY</b>		
<b>All products available to Special Order. Lead time 2-3 weeks</b>		
<b>ANA</b>		
732020	Anti-dsDNA	12 × 8 tests
733026	ANA Profile 8	12 × 8 tests
733018	ANA Profile HJS	12 × 8 tests
<b>ENA</b>		
733023	Anti-ENA Screen 7	12 × 8 tests
733010	Anti-Jo 1	12 × 8 tests
733012	Anti-Scl-70	12 × 8 tests
733013	Anti-Sm	12 × 8 tests
733014	Anti-Sm/RNP	12 × 8 tests
733015	Anti-SS-A (Ro)	12 × 8 tests
733016	Anti-SS-B (La)	12 × 8 tests
<b>AMA</b>		
733017	Anti-Mitochondrial M2	12 × 8 tests
<b>Thyroid-Autoantibodies</b>		
731010	Anti-TG	12 × 8 tests
731011	Anti-Thyroid-Peroxidase (Anti-TPO)	12 × 8 tests
<b>ANCA</b>		
735013	Anti-Proteinase 3	12 × 8 tests
735012	Anti-Myeloperoxidase	12 × 8 tests
<b>Others</b>		
733011	Anti-Rib-P (ribosomal protein)	12 × 8 tests

**Special prices are available for bulk purchase**

# Terms and Conditions for Supply of Goods and/or Services

## 1. INTERPRETATION

- 1.1 In these Terms and Conditions the following words have the following meanings:  
"Buyer": means the person(s), firm or company who accepts MAST's written quotation for the sale of the Goods and/or supply of the Services or whose written order for the Goods or Services is accepted by MAST;  
"Contract": means any contract between MAST and the Buyer for the sale and purchase of Goods, incorporating these Terms;  
"Goods": means any products and, test results and all documents and information arising from services agreed in the Contract to be supplied to the Buyer by MAST (including any part or parts thereof);  
"MAST": means Mast Group Limited;  
"Services" means the services which MAST is to supply in accordance with these Terms; and Terms, means the standard terms and conditions of sale set out in this document and (unless the context otherwise requires) includes any special terms agreed in writing between the Buyer and MAST pursuant to condition 2.3.
- 1.2 A reference in these Terms to a provision of a statute shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time.
- 1.3 In these Terms references to the masculine include the feminine and to the singular include the plural and vice versa as the context admits or requires.
- 1.4 In these Terms, the headings will not affect the construction of these Terms.

## 2. GENERAL

- 2.1 Subject to any variation under condition 2.3, the Contract will be subject to these Terms to the exclusion of all other terms and conditions (including any terms or conditions which the Buyer purports to apply under any purchase order, confirmation of order, specification or other document) and any course of dealing, and the acceptance of the supply of Goods or provision of Services shall be deemed conclusive evidence of the Buyer's acceptance of these Terms.
- 2.2 MAST's employees or agents are not authorised to make any representations concerning the Goods/Services unless confirmed by MAST in accordance with condition 2.3. In entering into the Contract the Buyer acknowledges that it does not rely on any such representations, which are not so confirmed, but nothing in these Terms affect the liability of either party for fraudulent misrepresentation.
- 2.3 Any variation to these Terms and representations about the Goods or Services shall have no effect unless expressly agreed in writing and signed by the Managing Director of MAST.
- 2.4 Any typographical, clerical or other error or omission in any sales literature, quotation, price list, acceptance of offer, invoice or other document or information issued by MAST shall be subject to correction without any liability on the part of MAST.

## 3. ORDERS AND SPECIFICATIONS

- 3.1 Orders may be made by post, telephone, fax or e-mail and shall be deemed to be in accordance with MAST's custom manufacturing policy as set out in MAST's price list from time to time available at [www.mast-group.com](http://www.mast-group.com). Each order for Goods or Services by the Buyer shall be deemed to be an offer by the Buyer to purchase Goods or Services subject to these conditions. Please order by catalogue number and product description. A Buyer order number is required for every order.
- 3.2 No order submitted by the Customer shall be deemed to be accepted by MAST unless and until confirmed in writing by MAST's authorised representative.
- 3.3 The Buyer shall be responsible to MAST for ensuring the accuracy of the terms of any order including where applicable, catalogue number and any applicable specification or design submitted by the Buyer. Buyer should note the provisions of condition 11.7.
- 3.4 Goods should be used in accordance with the manufacturer's instructions. MAST accepts no liability for the performance of Goods if used outside the manufacturer's instructions or where Goods are found to be faulty yet continue to be used.
- 3.5 MAST does not guarantee results arising from test/research Services provided by MAST will meet Buyer expectations and shall not be liable to the Buyer for such results. Any retesting required as a result of the Buyer providing incorrect or incomplete information or unsuitable material will be the subject of additional charges unless the retest is required solely as a result of MAST gross negligence.
- 3.6 An order for Goods available from stock may be cancelled at any time prior to the despatch of the order without incurring any additional charges. Cancellation of an order which has already been despatched will incur a 15% restocking fee. Goods returned in an unsealable condition (e.g. damage to or defacing of packaging, contents etc.) or where content has not been kept at the correct temperatures, whether or not performance is affected, will be charged in full. Cancellation of Goods for special order will be subject to a charge equivalent to 100% of the value of the special order Goods, once the order has been entered onto Mast's computer system.
- 3.7 Where an order confirmation is despatched from MAST to the Buyer, the Buyer should confirm the contents and is presumed to have accepted that confirmation as an accurate description of Goods, quantities and prices to be delivered.

## 4. NEW ACCOUNTS

Prospective customers wishing to open a credit account are requested to furnish two trade references and one banker's reference. Until the opening of a credit account has been confirmed, a remittance should accompany payment effected by cheque, banker's draft or electronic transfer; commencement of the services or production/delivery of the Goods will not be made until cleared funds have been credited to MAST's account. MAST reserves the right to make an additional charge to cover transaction costs in proportion to the costs associated with the chosen method of payment both before and after the references have proved satisfactory.

## 5. DESCRIPTION

- 5.1 The description of the Goods shall be as set out in MAST's quotation or price list.
- 5.2 All drawings, descriptive matter, specifications and advertising issued by MAST and any descriptions or illustrations contained in MAST's catalogues or brochures are issued or published for the sole purpose of giving an approximate idea of the Goods described in them. They will not form part of the Contract.

## 6. TERMS OF PAYMENT

- 6.1 Unless otherwise agreed in writing terms of payment shall be net cash due, together with Value Added Tax where applicable, according to the terms printed on the invoice in respect of the Goods. Payment of the price shall be due within thirty (30) days of date of the invoice, unless otherwise agreed in writing.
- 6.2 Time for payment shall be of the essence.
- 6.3 MAST may submit its invoice either with its delivery note or as requested.
- 6.4 Invoices may be raised prior to Services being undertaken or dispatch of Goods for new accounts or in accordance with condition 6.5 as otherwise required by MAST.
- 6.5 Invoices may be raised in respect of a particular batch, consignment or part orders being delivered. MAST reserves the right to require payment in advance where the Buyer has a previous history of late payment or in the opinion of MAST represents a credit risk.
- 6.6 The Buyer shall make all payments due under the Contract without any deduction whether by way of set-off, counterclaim, discount, abatement or otherwise unless the Buyer has a valid court order requiring an amount equal to such deduction to be paid by MAST to the Buyer.
- 6.7 Where the Contract is to be or may be fulfilled in separate deliveries or instalments payment for each such delivery or instalment will be as if the same constituted a separate Contract.
- 6.8 If the Buyer fails to make any payment on the due date then, without limiting any other right or remedy available to MAST, MAST may:
- cancel the Contract or suspend any further deliveries/Services to the Buyer;
  - appropriate any payment made by the Buyer to such of the Goods or Services (or the goods/services supplied under any other Contract between the Buyer and MAST) as MAST may think fit (notwithstanding any purported appropriation by the Buyer);
  - withhold and/or offset amounts due from MAST to the Buyer under any other contract against amounts due from the Buyer to MAST (notwithstanding any terms of the Buyer to the contrary); and
  - charge interest on amounts outstanding beyond the time specified in condition 6.1. The rate of interest shall be 5% per annum over the National Westminster Bank plc base-lending rate accruing on a daily basis from the payment due date and compounded quarterly. MAST may exercise this right in addition to any other rights it may have in respect of the Goods, Services or the non-payment, until payment in full is made (a part of a month being treated as a full month for the purpose of calculating interest). The parties agree that this constitutes a substantial remedy in terms of the Late Payment of Commercial Debts (Interest) Act 1998.
- 6.9 MAST may withdraw credit facilities at any time and without notice.

## 7. PRICES

- 7.1 Unless otherwise agreed in writing, all orders are executed subject to prices and any relevant discounts running at the date of despatch. Any price list of MAST whether published or not shall not affect the right of MAST to charge for Goods in accordance with this condition 7.
- 7.2 Prices quoted in a particular currency shall be invoiced and payable in that currency. The Buyer will be liable to MAST for any shortfall in the price payable or loss arising including conversion costs) from payment being received in a different currency or which is converted on receipt.
- 7.3 All prices unless otherwise stated are ex-works (Incoterms 2010) and exclusive of Value Added Tax.
- 7.4 Where any form of international delivery is agreed, the Buyer shall remain liable for any customs or excise duties or tariffs imposed on export or import whether or not such duties were known to the parties at the time of contract.
- 7.5 Any special negotiated prices will only be applied if MAST has received written acceptance of a quotation or the order states a valid quote reference. If no acceptance has been received list prices will be applied. Quotations, unless specifically stated otherwise shall remain valid for ninety (90) days from the date of the quotation, unless earlier withdrawn or varied by MAST.
- 7.6 Special prices for volume breaks apply to individual orders received on the same day for planned delivery as one order and are not cumulative. Special prices for volume breaks will similarly not apply when the order is planned to be delivered on more than one delivery date.
- 7.7 MAST reserves the right to adjust quoted prices if the Buyer does not fulfil its obligation of purchasing the required quantities indicated in the quotation.
- 7.8 MAST reserves the right, by giving written notice to the Buyer at any time before delivery of the Goods or provision of the Services, to increase the price of the Goods/Services to reflect any increase in the cost to MAST which is due to any factor beyond the control of MAST (such as, without limitation, any foreign exchange fluctuation, currency regulation, alteration or introduction of duties or tariffs, significant increase in the costs of labour, materials or other costs of manufacture (utilities)), any change in delivery dates, quantities or specifications for the Goods/Services which is requested by the Buyer, or any delay caused by any instructions of the Buyer or failure of the Buyer to give MAST adequate information or instructions.
- 7.9 If, by mistake, MAST has under priced any Goods, it will not be liable to supply those Goods to the Buyer at the stated price, provided that it notifies the Buyer before despatch of the Goods. In those circumstances, MAST will notify the correct price to the Buyer so the Buyer can decide whether or not it wishes to order the Goods at that price.

## 8. CARRIAGE AND DELIVERY

- 8.1 Unless otherwise agreed, prices quoted exclude delivery and insurance charges. Where any alternative arrangement is agreed in writing by MAST, the Buyer shall be liable to pay MAST charges for transport, packaging, insurance, duties and tariffs and other costs where applicable.
- 8.2 An order comprising both stock and specially manufactured Goods will be subject to separate charges for each delivery.
- 8.3 Any dates quoted for delivery of the Goods or provision of the Services are approximate only and MAST shall not be liable for a delay however caused. Any dates specified for delivery of the Goods are intended to be an estimate only and time for delivery shall not be made "of the essence". If no dates are so specified, delivery will be in a reasonable time. The Goods may be delivered/Services performed by MAST in advance of the quoted delivery date on giving reasonable notice to the Buyer.
- 8.4 Where the Goods are to be delivered in instalments, or Service to be carried out in phases, each delivery date or phase completion shall constitute a separate Contract and failure by MAST to deliver or complete any one or more of the instalments in accordance with these Terms or any claim by the Buyer in respect of any one or more instalments shall not entitle the Buyer to treat the Contract as a whole as repudiated.
- 8.5 Where delivery of the Goods is to be made to the Buyer's specified address, the Buyer shall make all arrangements necessary to take delivery of the Goods (including offloading) whenever they are tendered for delivery. The Buyer shall be liable, on a full indemnity basis, for any costs incurred by MAST, arising from undelivered Goods being returned, stored and re-delivered.
- 8.6 A handling charge will apply on all orders in the UK mainland. An additional charge applies to Northern Ireland, and the Isle of Man, and the Scottish Islands. MAST reserves the right to apply a small order supplement. Products designated as "Hazardous Goods" will be shipped separately and subject to an additional charge per delivery. Any such charges shall be published on MAST's website from time to time, or otherwise notified to the Buyer.

## 9. RISK AND TITLE

- 9.1 The Goods shall be at the Buyer's risk as from delivery (including any attempted delivery by MAST).
- 9.2 Title in the results from the provision of any research or test Service shall belong to the Buyer but all other intellectual property rights, including know how, in how those results are achieved will remain with MAST and the Buyer shall not be entitled to such information or to any licence to use such intellectual property or know how.
- 9.3 Where any Goods require the use of integral software, such Goods are provided with a licence to use such software for the life of the Goods and subject to any specific restrictions on such use. The Buyer solely shall be liable for ensuring interfacing with its own software and that of the Goods. Title to software will remain with MAST. The Buyer shall be responsible for maintaining software security, regardless of whether it uses its own security software or that issued by the manufacturer, and shall install all software updates when issued by the manufacturer and otherwise maintain security in keeping with good industry practice.
- 9.4 MAST and the Buyer expressly agree that, in spite of delivery having been made, property in the Goods shall not pass from MAST until the Buyer shall have paid the invoice in full and no other sums whatsoever shall be due from the Buyer to MAST.
- 9.5 Until property in the Goods passes to the Buyer in accordance with condition 8.2 the Buyer shall hold the Goods as bailee for MAST. The Buyer shall store the Goods in accordance with MAST's instructions (at no cost to MAST) and good industry practice separately from all other goods in its possession and so that they are clearly identified as MAST's property.
- 9.6 Notwithstanding that the Goods (or any part thereof) remain the property of MAST, the Buyer has the right to dispose of the Goods or such other products in the normal course of its business for the account of MAST and to pass title to the Goods or products to his customer being a bona fide purchaser for value without notice of MAST's rights. Any such dealings shall be a sale or use of MAST's property by the Buyer on the Buyer's own behalf and the Buyer shall deal as principal when making such sales or dealings. MAST shall be entitled to recover the invoice value notwithstanding the property and any of the Goods have not passed from MAST.
- 9.7 Until such time as property in the Goods passes from MAST the Buyer shall upon request deliver up such of the Goods that are still in existence or resold to MAST. If the Buyer fails to do so MAST or its appointed representative may enter the premises owned, occupied or controlled by the Buyer where the Goods are situated and repossess the Goods. On the making of such request the rights of the Buyer under condition 9.6 shall cease.
- 9.8 The Buyer shall insure and keep insured the goods to their full value against "all risks" to the reasonable satisfaction of MAST until the date that property in the Goods passes from MAST and indemnifies MAST against any cost claim or loss howsoever suffered or incurred.

Continued

## 10. DAMAGE IN TRANSIT AND SHORTAGES

- 10.1 MAST will, when the price quoted includes delivery, repair or replace free of charge goods damaged in transit provided that the Buyer adheres to the provisions of this condition 10. The obligation to repair or replace, shall be MAST's entire liability for shortfall, faulty, damaged or undelivered Goods.
- 10.2 It is the Buyer's responsibility to inspect the Goods on receipt and to report to the delivery driver and to MAST promptly any damage to, or shortfall in the Goods which is apparent from reasonable inspection. Where appropriate, photo evidence should be taken and provided to MAST upon request. Goods received in a damaged or unsatisfactory condition must be signed for as such and must not be used.
- 10.3 The Buyer shall be deemed to have accepted the Goods three (3) days after delivery to the Buyer and after acceptance, the Buyer shall not be entitled to reject Goods which are not in accordance with the Contract.
- 10.4 MAST shall be entitled on reasonable notice to the Buyer to arrange an inspection of any damaged Goods at the Buyers premises and the Buyer shall afford the inspector all reasonable assistance.
- 10.5 Goods should not be returned to MAST without a valid returns material authorisation number. If authorisation is received the Buyer shall return goods, packaging and a copy of the delivery note. Goods must be returned in accordance with manufacturer instructions and good industry practice.
- 10.6 Any liability of MAST for non-delivery of the Goods shall be limited to replacing the Goods within a reasonable time or issuing a credit note at the pro rata Contract rate against any invoice raised for such Goods.

## 11. WARRANTY

- 11.1 MAST warrants that subject to the other provisions of these Conditions upon delivery, the Goods will comply with the written specification and on provision of the Services, the Services shall have been undertaken in accordance with any Statement of Works.
- 11.2 MAST shall not be liable for any breach of the warranty in condition 11.1 unless:
  - (a) the Buyer gives written notice of the defect to MAST and (if the defect is as a result of damage in transit) to the carrier within 3 days of the time when the Buyer discovers or ought reasonably to have discovered the defect; or in respect of services, MAST has failed to comply with the Statement of Works;
  - (b) MAST is given a reasonable opportunity after receiving notice of examining such Goods at the Buyers premises or the Buyer (if asked to do so by MAST) returns such Goods and products of any Services to MAST's place of business at the Buyer's cost for such examination to take place.
- 11.3 MAST shall not be liable for a breach of warranty if:
  - (a) the Buyer makes any further use of the Goods after giving such notice; or
  - (b) the defect arises because the Buyer failed to follow MAST's oral or written instructions as to the storage, installation, commissioning, use or maintenance of the Goods or (if there are none) good industry practice; or
  - (c) the Buyer alters or repairs such Goods without the written consent of MAST.
- 11.4 Subject to conditions 11.2 and 11.3, if any of the Services do not conform with the warranty contained in condition 11.1 as a result of MAST's default, MAST may at its entire discretion re-perform Services which do not conform to condition 11.1.
- 11.5 Subject to conditions 11.2 and 11.3, if any of the Goods do not conform with the warranty in condition 11.1, MAST shall at its option repair or replace such Goods (or the defective part) provided that the Buyer shall return the Goods (or the defective part), if MAST so requests, to MAST at the Buyer's expense.
- 11.6 Where MAST re-performs the services or repairs or replaces the defective Goods, MAST shall have no further liability for a breach of warranty in condition 11.1 in respect of such Goods or Services.
- 11.7 The Buyer warrants and represents that where Goods are made to Buyer's design or specification, or where the Buyer provides material from which MAST is to work, the Buyer holds all necessary rights and licenses to authorise MAST to produce the Goods using such specification or materials. The Buyer will indemnify and keep indemnified MAST on demand against all costs claims and liabilities arising out of any third party claim that in producing the Goods MAST has infringed a third party's intellectual property rights.

## 12. LIMITATION OF LIABILITY

- 12.1 Subject to condition 11, the following provisions set out the entire financial liability of MAST (including any liability for the acts or omissions of its employees, agents and sub-contractors) to the Buyer in respect of:
  - (a) any breach of these Terms; and
  - (b) any representation, statement or tortious act or omission including negligence arising under or in connection with the Contract.
- 12.2 All warranties, conditions and other terms implied by statute or common law (save for the conditions implied by section 12 of the Sale of Goods Act 1979) are, to the fullest extent permitted by law, excluded from the Contract.
- 12.3 Nothing in these Terms excludes or limits the liability of MAST for death or personal injury caused by MAST's negligence or for fraudulent misrepresentation.
- 12.4 Subject to conditions 12.2 and 12.3 MAST's total liability in contract, tort (including negligence or breach of statutory duty), misrepresentation, restitution or otherwise, arising in connection with the performance or contemplated performance of the Contract shall be limited to the refund of the price of the Goods and Services plus up to ten percent (10%) of the price.
- 12.5 MAST shall not be liable to the Buyer for any pure economic loss, loss of profit, loss of business opportunity, depletion of goodwill or otherwise, in each case whether direct, indirect or consequential, or any claims for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the Contract.
- 12.6 MAST shall not be liable for any loss or liability arising from virus, Trojans, ransomware, malware, scanners, spyware or other similar attacks on equipment or software.

## 13. CONFIDENTIALITY AND DATA PROTECTION

- 13.1 A party (Receiving Party) shall keep in strict confidence all technical or commercial know-how, specifications, inventions, processes or initiatives which are of a confidential nature and have been disclosed to the Receiving Party by the other party (Disclosing Party), its employees, agents or subcontractors, and any other confidential information concerning the Disclosing Party's business or its products or its services which the Receiving Party may obtain. The Receiving Party shall restrict disclosure of such confidential information to such of its employees, agents or subcontractors as need to know it for the purpose of discharging the Receiving Party's obligations under the Contract, and shall ensure that such employees, agents or subcontractors are subject to obligations of confidentiality corresponding to those which bind the Receiving Party. This condition 13 shall survive termination of the Contract.
- 13.2 The Buyer may not without the prior written approval of MAST issue or cause to be issued any press release or publish any journal publication or notice regarding the Products, or details relating to the supply by MAST to the Buyer.
- 13.3 The Buyer hereby warrants and represents that it has and where applicable for future persons involved in the purchase of MAST Goods or Services, will obtain written consent from such persons whose personal details are provided to (or independently obtained by) MAST for the purposes of this supply of Goods or Services (including all officers, employees, agents and contractors of Buyer) "Buyer Personnel" that allows MAST to hold and process "Personal Data" (as defined in applicable data protection Law), relating to such Buyer Personnel, anywhere in the world, both manually and electronically, for all purposes relating to:
  - (a) the supply of the Goods and/or performance of the Services;
  - (b) administering and managing the business activities of MAST; and
  - (c) compliance with applicable policies and procedures and laws, rules and regulations.
- 13.4 Where personal data is supplied solely for the purpose of fulfilment of the contract, the parties shall rely on "legitimate purpose" in order to hold personal data relating to individuals involved in the contract.
- 13.5 Subject to condition 13.4, MAST shall only hold Personal Data for the limited purpose of the supply (and any continuing supplies), and for so long as is reasonably necessary. MAST may share such personal Data with its officers and employees who have a need to know the Personal Data for the performance of the contract but shall not otherwise share the Personal Data with any third parties.
- 13.6 MAST hereby confirms that any provision by MAST of any officer and employees Personal Data is obtained and provided in compliance with the terms of the applicable data protection Law.
- 13.7 MAST's full Privacy and Data Protection Policy, which is hereby incorporated, is available at [www.mast-group.com](http://www.mast-group.com).

## 14. TERMINATION

- 14.1 MAST shall be entitled to cancel the Contract or suspend any further deliveries under the Contract without any liability to the Buyer if any of the following occur (without prejudice to any other right or remedy available to MAST):
  - (a) the Buyer being in material breach of an obligation under the Contract (including an obligation to make payment) which (if capable of remedy) it fails to remedy within 30 days starting on the day after receipt of notice from MAST giving particulars of the breach;
  - (b) the Buyer passing a resolution for its winding-up or a court of competent jurisdiction making an order for the Buyer's winding-up or dissolution;
  - (c) the making of an administration order in relation to the Buyer or the appointment of a receiver over, or the taking possession or sale by an encumbrance taking possession of or selling an asset of the Buyer; or
  - (d) the Buyer making an arrangement or composition with its creditors generally or making an application to a court of competent jurisdiction for protection from its creditors generally; or
  - (e) the buyer being unable to pay its debts as they fall due.
- 14.2 If MAST cancels or suspends any further deliveries under the Contract under condition 14.1 and if the Goods have been delivered but not paid for the price shall become immediately due and payable regardless of previous agreement or arrangement to the contrary.

## 15. FORCE MAJEURE

MAST reserves the right to defer the delivery or to cancel the Contract or reduce the volume of the Goods ordered, or Services requested by the Buyer (without liability to the Buyer) if it is prevented from or delayed in the carrying on of its business due to circumstances beyond the reasonable control of MAST.

## 16. MISCELLANEOUS

- 16.1 Each right or remedy of MAST under the Contract is without prejudice to any other right or remedy of MAST whether under the Contract or not.
- 16.2 If any provision of the Contract is found by any court, tribunal or administrative body of competent jurisdiction to be wholly or partly illegal, invalid, void, voidable, unenforceable or unreasonable it shall to the extent of such illegality, invalidity, voidness, voidability, unenforceability or unreasonableness be deemed severable and the remaining provisions of the Contract and the remainder of such provision shall continue in full force and effect.
- 16.3 Failure to delay by MAST in enforcing any provision of the Contract will not be construed as a waiver of any of its rights under the Contract.
- 16.4 Any waiver by MAST of any breach of, or any default under, any provision of the Contract by the Buyer will not be deemed a waiver of any subsequent breach or default and will in no way affect the other terms of the Contract.
- 16.5 The parties to this Contract do not intend that any term of this Contract will be enforceable by virtue of the Contracts (Rights of Third Parties) Act 1999 by any person that is not a party to it.
- 16.6 The formation, existence, construction, performance, validity and all aspects of the Contract shall be governed by English law and the parties submit to the exclusive jurisdiction of the English courts.



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