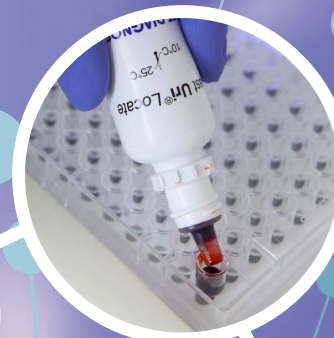
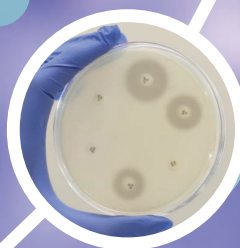


IVD solutions through partnership



**PRODUCT CATALOGUE**  
2021-2022

# Welcome

Welcome to the Mast Group Ltd product catalogue effective from January 1st 2021. 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).



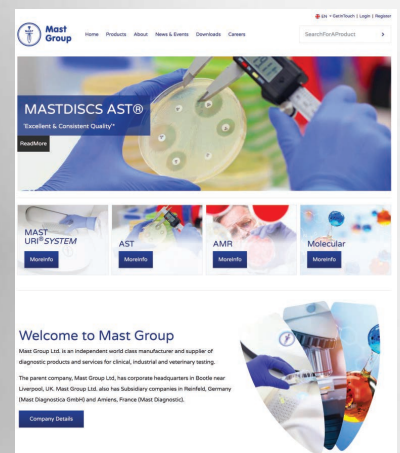
## Ethical Statement

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)

**BIVDA**

## Website

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



# Ordering Information | 2021

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

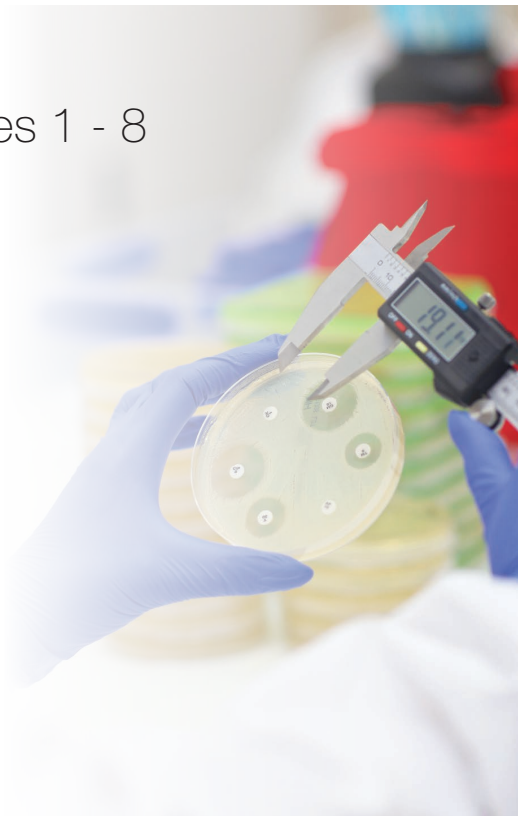
Mast Group Ltd's standard Terms and Conditions for Supply of Goods and/or Services apply to all transactions. A copy can be found on pages 43-44 of this publication and at [www.mast-group.com](http://www.mast-group.com)



## 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 - 17

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 18

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 19 - 30

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  
MAST® ASSURE Stained Febrile Antigens

## Veterinary | Page 31

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 32

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 33 - 35

### 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 36 - 38

### 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 Group Ltd aims to provide customers with a high standard of product quality and customer service, and is an ISO9001 and ISO13485 certified company. Mast Group Ltd has an extensive range of products available from stock. Unique among diagnostic companies Mast Group Ltd also offers a renowned custom manufacturing service which guarantees to make products to customer specification with small minimum order requirements.

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 while 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 guarantee is between 80 and 100% of the quantity ordered. The final quantity may also comprise more than one batch number. Exceptions though will be made for specific tenders if agreed in advance.

Mast Group Ltd. can only manufacture in certain increments above the minimum quantity, this is specified in the table below.

**When we accept your order for custom manufactured products you are committing to buy them with the associated minimum order quantities, lead-times and our 80-100% volume guarantee. No order cancellations will be permitted.**

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

\* Please note 6 week 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. Specific delivery dates will be provided by quotation for such new products.

<sup>A</sup> Minimum order, Increments and Optimum quantities for MAST® SELECTATAB and MAST® SELECTAVIAL products are dependent on customer specifications and pack size. Minimum order quantity and prices will be confirmed by quotation.

# Disc Diffusion Susceptibility Testing

Order No

Product

Packsize

## MAST® DISCMASTER 5 DISPENSER

**A robust and reliable antimicrobial cartridge disc dispenser designed for use with MAST Antimicrobial Susceptibility Test Cartridges.**

MDD65	MAST® DISCMASTER 5 Dispenser - 6 place	1
SILICA63	Silica Gel Capsule For MDD63/MDD64/MDD65	1
SHD5	Single Cartridge Hand Dispenser	5
CANISTER	MAST® DISCMASTER Canister for MDD64 models and below	1
CANISTER65	MAST® DISCMASTER Canister for MDD65	1

## MASTDISCS® AST ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES AND VIALS

### MASTDISCS® 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® (99+/- 2 discs per vial)

STOCKDISC	Stock Susceptibility Discs of a single type	1 vial
FUNGDISC	Stock Antifungal Discs of a single type	1 pack
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

## MASTDISCS® 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	
Amikacin 30	✓	✓	AK30C
Amoxicillin/clavulanic acid 2-1	-	✓	AUG3C
Amoxicillin/clavulanic acid 20-10	✓	✓	AUG30C
Ampicillin 2	-	✓	AP2C
Ampicillin 10	✓	✓	AP10C
Ampicillin/Sulbactam 10-10	✓	✓	SAM20C
Azithromycin 15	✓	-	ATH15C
Aztreonam 30	✓	✓	ATM30C
Bacitracin 10 units	-	-	BA10C
Cefaclor 30	✓	✓	CFC30C
Cefadroxil 30	-	✓	CDX30C
Cefalexin 30	-	✓	CFX30C
Cefalothin 30	✓	-	KF30C
Cefazolin 30	✓	-	CZ30C
Cefepime 30	✓	✓	CPM30C
Cefiderocol 30	✓	✓	FDC30C
Cefixime 5	✓	✓	CFM5C
Cefotaxime 5	-	✓	CTX5C
Cefotaxime 30	✓	-	CTX30C

# 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	
			
Cefoxitin 30	✓	✓	FOX30C
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
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
Levofloxacin 5	✓	✓	LEV5C
Lefamulin 20	✓	-	LMU20C
Linezolid 10	-	✓	LZD10C
Linezolid 30	✓	-	LZD30C
Mecillinam 10	✓	✓	MEC10C
Meropenem 10	✓	✓	MEM10C
Meropenem/Vaborbactam 20-10	✓	✓	MEV30C
Minocycline 30	✓	-	MN30C
Moxifloxacin 5	✓	✓	MXF5C
Mupirocin 200	-	✓	MUP200C
Nalidixic Acid 30	✓	✓	NA30C
Neomycin 10	-	✓	NE10C
Netilmicin 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

# 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	
			
Piperacillin 30	-	✓	PRL30C
Piperacillin 100	✓	-	PRL100C
Piperacillin/tazobactam 30-6	-	✓	PTZ36C
Piperacillin/tazobactam 100-10	✓	-	PTZ110C
Quinupristin/dalfopristin 15	✓	✓	SYN15C
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

### STOCK RANGE FORMER BSAC DISCS FOR IDENTIFICATION


Description Antibiotic & Content µg per disc (unless otherwise stated)	Order Code Cartridges 5 × 50 discs	Order Code Vials 99+/- 2 discs
Metronidazole 5	MZ5C	MZ5
Mupirocin 20	MUP20C	
Mupirocin 5	MUP5C	



# Disc Diffusion Susceptibility Testing

## 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 × 50 discs
	EUCAST	CLSI	
			
Cefperazone/sulbactam 75-30	-	-	SPZ105C/NCE
Carbenicillin 100	-	✓	PY100C
Colistin Sulphate 10	-	-	CO10C/NCE
Colistin Sulphate 25	-	-	CO25C/NCE
Polymyxin B 300	-	-	PB300C/NCE

### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS - STOCK RANGE

Antibiotic & Strength (unless otherwise stated)	Veterinary Cartridges 5 × 50 discs
Cefquinone 30	CEQ30C/NCE
Enrofloxacin 5	ENF5C/NCE
Florfenicol 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

### STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Vials 99+/- 2 discs
	CLSI	EUCAST	
			
Amikacin 30	✓	✓	AK30
Bacitracin 8 units	-	-	BA8
Bacitracin 10 units	-	-	BA10
Cefpodoxime 10	✓	✓	CPD10
Chloramphenicol 30	-	✓	C30
Gentamicin 10	✓	✓	GM10
Metronidazole 2.5	-	-	MZ2.5
Nalidixic Acid 30	✓	✓	NA30
Novobiocin 5	-	-	NO5
Oxacillin 1	✓	-	OX1
Penicillin G 1 unit	-	✓	PG1
Vancomycin 5	-	✓	VA5
Blank discs	-	-	BD0638W

## MASTDISCS<sup>®</sup>AST

### ANTIFUNGAL SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

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

# 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
D75C	MAST® OXA Plus - Temocillin/avibactam set <b>NEW</b>	OXA-48 detection/MBL, KPC screen	50 tests
D76C	ESBL Detection Set (EUCAST)	ESBL	50 tests

### Additional carbapenemase screening and identification tests

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
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 when used with D70C		5 x 50 discs

## 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

### HIGH CONTENT AMINOGLYCOSIDE DISCS

The following discs are available to special order and subject to 4-6 weeks lead time.

For detecting high level aminoglycoside resistance. (vials of 99+/- 2 discs or 5 x 50 discs in cartridges)

K1000	Kanamycin (vials)	1000 $\mu$ g	Min order 18pks
K1000C	Kanamycin (cartridges)	1000 $\mu$ g	or 22 vials

### 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			Systemic Gram Negative Rings			Urine Rings					
<b>M13/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>49.88</b>	<b>M14/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>49.88</b>	<b>M26/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>49.88</b>
C Chloramphenicol			25µg	AP Ampicillin			10µg	AP Ampicillin			25µg
E Erythromycin			5µg	KF Cephalothin			5µg	C Chloramphenicol			50µg
FC Fusidic acid			10µg	CO Colistin Sulphate			25µg	CO Colistin Sulphate			100µg
OX Oxacillin			5µg	GM Gentamicin			10µg	K Kanamycin			30µg
NO Novobiocin			5µg	S Streptomycin			10µg	NA Nalidixic acid			30µg
PG Penicillin G			1 unit	ST Sulphatriad			200µg	NI Nitrofurantoin			50µg
S Streptomycin			10µg	T Tetracycline			25µg	S Streptomycin			25µg
T Tetracycline			25µg	TS Cotrimoxazole			25µg	T Tetracycline			100µg
<b>M43/NCE</b>	<b>8 tips</b>	<b>1 tin</b>	<b>49.88</b>								
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.

## ADATAB®

For agar dilution antibiotic susceptibility testing. Each tablet for addition to 100ml medium.

### STOCK ADATAB®

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/T0.1	TETRACYCLINE 0.1mg	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.



# Multipoint Technology

Order No	Product	Packsize
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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	Amygdalin Agar	1 pack
IDM23/A	Citrate Agar	1 pack
IDM25/A	H <sub>2</sub> S Agar	1 pack
IDM34/A	Indole Agar	1 pack
IDM26/A	LDC Agar	1 pack
IDM28/A	Motility Test Agar	1 pack
IDM31/A	Phenylalanine Agar	1 pack
IDM9/A	Sorbitol Agar	1 pack
IDM37/A	Beta-Glucuronidase Agar	1 pack

## 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 MULTIPPOINT 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
	Accessories (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



# Multipoint Technology

Order No

Product

Packsize

## 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>locator</i> orientation marker pin 1.6mm	1
SCANURILOLOCATEN	Mast <b>Uri</b> <sup>®</sup> <i>locator</i> orientation marker pin 2.4mm	1
URILOLOCATE	Mast <b>Uri</b> <sup>®</sup> <i>Locate</i> reagent	14ml
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

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## CLINICAL & INDUSTRIAL CULTURE MEDIA

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

DM095D	Baird-Parker Medium	
DM100D	Blood Agar Base	
DM101D	Blood Agar Base-Special	
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)	
DM215D	D.S.T. Agar (Sulphonamide Antagonist Free)	
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	
DM180D	Nutrient Broth	
DM185D	Peptone Water	
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	
DM221D	Thioglycollate Broth USP	
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 10ml
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**

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# Culture Media & Supplements

Order No	Product	Usage	Packsizes
<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>Actinomycete Selection</b>			
MS25	Actinomycete Selectatab	1 tab per 100ml	25 tablets
DM115D	Columbia Agar		500g
<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
DM101D	Blood Agar Base Special		500g
DM115D	Columbia Agar		500g
<b>Bordetella Selection</b>			
MS10	Cefalexin Selectatab	1 tab per 100ml	25 tablets
<b>Burkholderia cepacia Selection</b>			
MS22	<i>Burkholderia cepacia</i> Selectatab	1 tab per 100ml	25 tablets
SV22	<i>Burkholderia cepacia</i> 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
SV18	Camp Selectavial (Preston Blood Free)	1 vial per litre	10 vials
MS26	Camp Selectatab (Modified Butzler Medium Virion)	1 tab per 500ml	10 tablets
DM101D	Blood Agar Base Special		500g
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>Clostridium difficile Selection</b>			
SV23	<i>Clostridium difficile</i> Selectavial	1 vial per 500ml	10 vials

# Culture Media & Supplements

Order No	Product	Usage	Packsize
DM491D	<b>E.coli O157 Selection</b> Sorbitol MacConkey Agar		500g
DM494D	<b>E.coli O157 Enrichment</b> Buffered Peptone water		500g
SV30	Novobiocin Selectavial	1 vial per 2.25 litre	10 vials
DM115D	Columbia Agar		500g
MS15	<b>Gardnerella Selection</b> Gardnerella Selectatab	1 tab per 250ml	25 tablets
DM115D	Columbia Agar		500g
SV5	<b>G.C. Selection</b> 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
MS27	<b>Haemophilus Selection</b> 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
SV36	<b>Legionella Selection</b> Legionella Selectavial (MWY)	1 vial per 500ml	10 vials
SV37	Legionella Selectavial (PNV)	1 vial per 500ml	10 vials
SV94	GVPN Selectavial	1 vial per 500ml	10 vials
DM258D	Legionella B.C.Y.E Agar Base		500g
SV35	<b>Legionella Enrichment</b> Legionella Growth Supplement (L-CYS)	1 vial per 500ml	10 vials
DM258D	Legionella B.Y.C.E Agar Base		500g
SV33	<b>Listeria Selection</b> Listeria Selectavial (Oxford) Formula	1 vial per 500ml	10 vials
DM256D	Listeria Selective Agar Base ( Oxford)		500g
SV34	<b>Listeria Enrichment</b> Listeria Selectavial (Selective Enrichment)	1 vial per 500ml	10 vials
MS24	<b>Mycobacteria Selection</b> Mycobacteria Selectatab (Kirchner)	1 tab per 500mls	10 tablets
SV40	Sputagest Selectavial	1 vial per 100ml	10 vials
MS2	<b>Proteus- Inhibition of Swarming</b> P.N.P.G. Selectatab	1 tab per 100ml	25 tablets
DM440D	<b>Salmonella Selection</b> M.S.R.V. (Salmonella) Medium		500g

# Culture Media & Supplements

Order No	Product	Usage	Packsizes
DM160D	Mannitol Salt Agar		500g
	<b><i>Staphylococcus aureus</i> <math>\beta</math>-lactamase induction</b>		
DM215D	D.S.T. Agar (Sulphonamide Antagonist Free)		500g
DM101D	Blood Agar Base Special		500g
DM115D	Columbia Agar		500g
	<b><i>Staphylococcus/Streptococcus</i> Selection</b>		
SV11	Staph/Strep Selectavial	1 vial per litre	10 vials
DM115D	Columbia Agar		500g
	<b><i>Yersinia</i> 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

# Culture Media & Supplements

Order No	Product	Packsize
<b>MAST ID® CHROMagar® Candida</b>		
IDM40/L	MAST®ID CHROMagar® Candida For the detection and identification of <i>Candida albicans</i> , <i>Candida tropicalis</i> and other <i>Candida</i> spp.	10 × 100ml sachets
IDM40D	MAST®ID CHROMagar® Candida For the detection and identification of <i>Candida albicans</i> , <i>Candida tropicalis</i> and other <i>Candida</i> spp. (Available to Special Order only. Lead time 4 weeks)	500g
<b>MAST® POURITE</b> Anti-bubble Agent for Agar Based Media.		
MP1A	MAST® POURITE	60ml
<b>REDIPREP® PREPARED EGG MEDIA</b>		
Isolation Egg Media. Available from stock.		
EM100	Löwenstein-Jensen Medium	50 slopes
EM102	Löwenstein-Jensen Medium with Pyruvate	50 slopes





# Miscellaneous Laboratory Products

Order No	Product	Packsizes
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## DETECTION OF BACTERIURIA

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
IDM37/A	Beta-Glucuronidase Agar	10 × 200ml

## 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

## PHOSPHATE BUFFERED SALINE\*

3057	PBS for serology pH7.0	20 litres
3058	PBS for serology pH7.0	12 litres

\* Delivery of this product can only be effected on a pallet.  
Minimum order level is one pallet - equivalent to 10 packs.

# Identification Products

Order No	Product	Packsize
<b>DENTIFICATION OF CAMPYLOBACTER SPP.</b>		
CAMP-ID	MAST® ID CAMP IDENTIFICATION SYSTEM A 3 test system for the presumptive identification of thermophilic <i>Campylobacter spp.</i>	10 tests
	<b>Available to Special Order. Lead time 6-8 weeks</b>	
ETO7	MAST® ID PYR Strips. For the detection of pyrrolidonyl amino peptidase activity.	25 strips
RST501	MAST® ALEX-MRSA Rapid latex test for the detection of Methicillin Resistant Staphylococcus aureus	48 tests
RST7001	MAST Toxoreagent- Toxoplasma test Complete kit for detection of Toxoplasma antibody comprising latex suspension, buffer and positive control serum.	50 tests
<b>RAPID DETECTION OF β-LACTAMASE PRODUCTION</b>		
ETO/1	MAST® ID Intralactam Strips	25 strips
D59	Nitrocefin Discs	50
<b>MAST® ID IDENTIFICATION STRIPS</b>		
ETO4	MAST® ID Oxidase Strips - for the performance of the oxidase reaction	25 strips
ETO7	MAST® ID PYR Strips - for the detection of pyrrolidonyl amino peptidase activity	25 strips
<b>IDENTIFICATION OF HAEMOPHILUS SPP.</b>		
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
<b>IDENTIFICATION OF NON-SPORING ANAEROBES</b>		
MID8	MASTRING® for identification of Gram negative non-sporing anaerobes.	50 rings
<b>IDENTIFICATION OF STAPHYLOCOCCUS SPP.</b>		
MID/STAPH	MASTRING® for the identification of coagulase negative staphylococci.	50 rings
SV78/3ML	Plasma Coagulase-EDTA	10 × 3ml
SV78/20ML	Plasma Coagulase-EDTA	6 × 20ml

# Identification Products

Order No	Product		Packsizes
<b>MASTDISCS® IDENTIFICATION DISCS IN VIALS</b>		<b>For presumptive Identification of:</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

Order No	Product		Packsizes
<b>MASTDISCS® ID IDENTIFICATION DISCS IN CARTRIDGES</b>		<b>For presumptive Identification of:</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
D55C	SPS Discs	<i>P. anaerobius</i>	250
D57C	Oxidase Discs	<i>Pseudomonas</i> spp.	250
D71C	CAT™ID	Carbapenemase producers	250

## MASTDISCS® Combi

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

D52C	Extended Spectrum β Lactamase Set (CPD 30)	ESβL	50 tests
D62C	Cefotaxime 30 & Cefotaxime 30/Clavulanic Acid 10	ESβL	150 tests
D63C	Cefepime 30 & Cefepime 30/Clavulanic Acid 10	ESβL	150 tests
D64C	Ceftazidime 30 & Ceftazidime 30/Clavulanic Acid 10	ESβL	150 tests
D66C	Cefpodoxime 10 & Cefpodoxime 10/Clavulanic Acid 1	ESβL	150 tests
D67C	Extended Spectrum β Lactamase Set (CPD10)	ESβL	50 tests
D68C	AmpC & ESβL Detection Set	AmpC/ESβL	50 tests
D69C	AmpC Detection Set	AmpCs	50 tests
D72C	AmpC, ESβL & Carbapenemase Detection Disc Set	AmpC/ESβLs/Carba	50 tests
D73C	MAST® Carba plus	MBL/KPC/OXA	50 tests
D75C	MAST® OXA Plus - Temocillin/avibactam set <b>NEW</b>	OXA-48 detection/MBL, KPC screen	50 tests
D76C	ESβL Detection Set (EUCAST)	ESβL	50 tests

#### Additional carbapenemase screening and identification tests

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
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 when used with D70C		5 × 50 discs

# Identification Products

Order No	Product	Tests/Pack
<b>IDENTIFICATION OF MRSA</b>		
RST501	MAST® ALEX-MRSA Rapid Latex Test for the detection of Methicillin resistant <i>Staphylococcus aureus</i>	48 Tests
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 OX1C	Oxacillin Susceptibility Discs in Vials Oxacillin Susceptibility Discs in Cartridges	99+/- 2 discs/vial 5 × 50 discs
FOX10 FOX10C	Cefoxitin Susceptibility Discs in Vials Cefoxitin Susceptibility Discs in Cartridges	99+/- 2 discs/vial 5 × 50 discs
TAB/OX0.2 TAB/FOX0.4	Oxacillin 0.4 ADATAB® Cefoxitin 0.4 ADATAB®	25 × 100ml tabs 25 × 100ml tabs
DM160D	Mannitol Salt Agar	500g
DM170D	Mueller Hinton Agar	500g
DM215D	D.S.T. Agar	500g
DM115D	Columbia Agar	500g

## IDENTIFICATION OF CANDIDA SPP.

IDM40/L	MAST® ID CHROMagar® Candida For the detection and identification of <i>Candida albicans</i> , <i>Candida tropicalis</i> and other <i>Candida</i> spp.	10 × 100ml sachets
IDM40D	MAST® ID CHROMagar® Candida For the detection and 500g identification of <i>Candida albicans</i> , <i>Candida tropicalis</i> and other <i>Candida</i> spp.	

**(Available to Special Order only. Lead time 4 weeks)**



# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### E.COLI O ANTISERA - MONOVALENT

#### Stock items

M12014	<i>Escherichia coli</i> Factor O26		2ml
M12016	<i>Escherichia coli</i> Factor O111		2ml
M12017	<i>Escherichia coli</i> Factor O119		2ml
M12018	<i>Escherichia coli</i> Factor O127a		2ml
M12030	<i>Escherichia coli</i> Factor O157		2ml
M12013	<i>Escherichia coli</i> O1		2ml
M12015	<i>Escherichia coli</i> O86a		2ml
M12019	<i>Escherichia coli</i> O128		2ml
M12020	<i>Escherichia coli</i> O44		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
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> As O 103	NO CE MARK	2ml
M15796/NCE	<i>Escherichia coli</i> As O 145	NO CE MARK	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
M15789/NCE	<i>Escherichia coli</i> O 121	NO CE MARK	2ml
M15802/NCE	<i>Escherichia coli</i> O 161	NO CE MARK	2ml
M15819/NCE	<i>Escherichia coli</i> O 165	NO CE MARK	2ml
M15758/NCE	<i>Escherichia coli</i> O 74	NO CE MARK	2ml
M15765/NCE	<i>Escherichia coli</i> O 91	NO CE MARK	2ml

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

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

### 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
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## MAST<sup>®</sup> ASSURE

### HAEMOPHILUS INFLUENZAE ANTISERA

Lead time 8 weeks

Haemophilus influenzae type listed below

M11303	<i>Haemophilus influenzae</i> Type b	2ml
M11302	<i>Haemophilus influenzae</i> Type a	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> Factor O 2	2ml
M10311	<i>Salmonella</i> Factor O 4	2ml
M10321	<i>Salmonella</i> Factor O 6,14	2ml
M10312	<i>Salmonella</i> Factor O 7	2ml
M10313	<i>Salmonella</i> Factor O 8	2ml
M10314	<i>Salmonella</i> Factor O 9	2ml
M10326	<i>Salmonella</i> 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

Packsizes

## 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
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## 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><i>Salmonella</i> Phase Induction Set</b>	No CE Mark	5ml × 17
This set consists of a, b, c, d, eh, G, I, k, L, r, y, en, 1, z, z4, z10, z29			

### SHIGELLA ANTISERA - MONOVALENT

Stock items

M10136	<i>Shigella boydii</i>	Type 2	2ml
M10137	<i>Shigella boydii</i>	Type 3	2ml
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
M10150	<i>Shigella sonnei</i>	Phase I	2ml
M10151	<i>Shigella sonnei</i>	Phase II	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

### BORDATELLA ANTISERA

Lead time 8 weeks

M11501/NCE	BORDATELLA PERTUSSIS ANTISERA 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> .	No CE Mark	2ml
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# Bacterial Agglutinating Antisera

Order No	Product	Packsize
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## 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

### HAEMOLYTIC STREPTOCOCCUS GROUP-B TYPING ANTISERA

Lead time 8 weeks

M93350/NCE	Group-B Strept. As VI NT6	No CE Mark	2ml
M93374/NCE	Group-B Strept. As VII 7271	No CE Mark	2ml
M93367/NCE	Group-B Strept. As VIII JM9	No CE Mark	2ml

### RECEPTOR DESTROYING ENZYME (RDE II)

370013	RDE (II) Receptor Destroying Enzyme For use in the serodiagnosis test of Influenza virus	20 mL × 5
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### REAGENTS FOR PREPARING SENSITIZED BLOOD CELLS

M42201	Reagents for preparing Sensitized Blood Cells	50 tests
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# Bacterial Agglutinating Antisera

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

### YERSINIA ENTEROCOLITICA O-GROUPING ANTISERA

#### Stock items

M11102	Polyvalent: Group O1, O2 Mixture	2ml
M11103	Group O3	2ml
M11104	Group O5	2ml
M11105	Group O9	2ml
M11106	Group O8	2ml

### 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 x 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
M11806/NCE	<i>Yersinia pseudotuberculosis</i> Group 5	No CE Mark	2ml
M11807/NCE	<i>Yersinia pseudotuberculosis</i> Group 6	No CE Mark	2ml

# Veterinary Tests

Order No	Product	Packsizes
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## EIKEN TESTS Available from stock

G-SZ71	Serum Amyloid A Protein Reagent 1 and 2	4 × 20ml
G-SZ75	Serum Amyloid A Protein Calibrator (Liquid)	6 × 1ml
E-XC33/NCE	QC control-SAA H (~100ug/ml) Research / Veterinary Use ONLY	5 × 2ml
E-XC32/NCE	QC control-SAA L (~20ug/ml) Research / Veterinary Use ONLY	5 × 2ml
V-SZ51/NCE	VET-SAA "Eiken" Reagent	R1 2 × 20mL / R2 2 × 20mL
V-SZ90/NCE	VET-SAA Calibrator Set	Calibrator 5 × 1mL / Lysis buffer 1 × 12mL
V-SZ91/NCE	VET-SAA-QC-Low	Calibrator 5 × 1mL / Lysis buffer 1 × 12mL
V-SZ92/NCE	VET-SAA-QC-High	Calibrator 5 × 1mL / Lysis buffer 1 × 12mL

## 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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## MASTAZYME® ENZYME IMMUNOASSAYS

All products available to Special Order - Lead time 2-3 weeks  
Complete assays for the detection and confirmation of antibodies

680251	<i>Brucella abortus</i> IgG	12 × 8 tests
680252	<i>Brucella abortus</i> IgM	12 × 8 tests

## MASTDISCS® AST ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES AND VIALS

### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS

Antibiotic & Strength µg per disc (unless otherwise stated)

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

### MASTDISCS® 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® in vials (100 discs per vial)

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

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

MASTRING	MASTRING-S® 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

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.



# Molecular Biology Tests

Order No	Product	Packsize
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## **MAST**ISOPLEX®

### **NUCLEIC ACID DETECTION PRODUCTS**

**Available from stock No dry ice shipment**

DNA/LYO5	MAST ISOPLEX® CRE ART kit - LAMP kit for molecular detection and characterisation of different strains of Carbapenem-resistant Enterobacterales	100 tests
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**Available to Special Order Lead time 6 weeks**

DNA/LYO3	MAST ISOPLEX® VTEC kit	20 tests
DNA/LYO4	MAST ISOPLEX® <i>E.coli</i> O157 kit	20 tests
DNA/LYO1	MAST ISOPLEX® DNA Lyo kit	100 tests
DNA/LYO2	MAST ISOPLEX® DNA Lyo Plus kit	100 tests

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# Mast Immunodiagnostic Tests | Infectious Disease

Order No	Product	Packsize
<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**

6631181	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 x 60 mm)	100 pc
<b>Rheumatic factor IgG absorbent for IgM tests</b>		
651003	MASTSORB	2 ml

# Mast Immunodiagnostic Tests | Infectious Disease

Order No	Product	Packsizes
<b>MASTAZYME® ENZYME IMMUNOASSAYS</b>		
<b>All products available to Special Order- Lead time 2-3 weeks</b>		
<b>Complete assays for the detection and confirmation of antibodies</b>		
680101	Aspergillus fumigatus IgG	12 × 8 tests
680102	Aspergillus fumigatus IgM	12 × 8 tests
680151	Bordetella pertussis IgG	12 × 8 tests
680152	Bordetella pertussis IgM	12 × 8 tests
680153	Bordetella pertussis IgA	12 × 8 tests
680201	Borrelia burgdorferi IgG	12 × 8 tests
680202	Borrelia burgdorferi IgM	12 × 8 tests
680251	Brucella abortus IgG	12 × 8 tests
680252	Brucella abortus IgM	12 × 8 tests
680301	Candida albicans IgG	12 × 8 tests
680302	Candida albicans IgM	12 × 8 tests
680303	Candida albicans IgA	12 × 8 tests
680351	Diphtheria IgG	12 × 8 tests
680401	EBV VCA IgG	12 × 8 tests
680402	EBV VCA IgM	12 × 8 tests
680411	EBV EA IgG	12 × 8 tests
680412	EBV EA IgM	12 × 8 tests
680421	EBV EBNA IgG	12 × 8 tests
680422	EBV EBNA IgM	12 × 8 tests
680501	FSME / TBEV IgG	12 × 8 tests
680502	FSME / TBEV IgM	12 × 8 tests
680601	Herpes 1 simplex IgG	12 × 8 tests
680602	Herpes 1 simplex IgM	12 × 8 tests
680621	Herpes 2 simplex IgG	12 × 8 tests
680622	Herpes 2 simplex IgM	12 × 8 tests
680623	Herpes 2 simplex IgA	12 × 8 tests
680643	Herpes 1/2 simplex IgA	12 × 8 tests
680702	Influenza A IgM	12 × 8 tests
680712	Influenza B IgM	12 × 8 tests
680751	Measles IgG	12 × 8 tests
680752	Measles IgM	12 × 8 tests
680753	Measles IgA	12 × 8 tests
680801	Mumps IgG	12 × 8 tests
680802	Mumps IgM	12 × 8 tests
680803	Mumps IgA	12 × 8 tests
680851	Mycobacterium tuberculosis IgG	12 × 8 tests
680852	Mycobacterium tuberculosis IgM	12 × 8 tests
680853	Mycobacterium tuberculosis IgA	12 × 8 tests
680901	Mycoplasma pneumoniae IgG	12 × 8 tests
680902	Mycoplasma pneumoniae IgM	12 × 8 tests
680903	Mycoplasma pneumoniae IgA	12 × 8 tests
680981	Parainfluenza 1/2/3 IgG	12 × 8 tests
680982	Parainfluenza 1/2/3 IgM	12 × 8 tests
681051	Poliomyelitis IgG	12 × 8 tests
681101	Respiratory syncytial virus (RSV) IgG	12 × 8 tests
681102	Respiratory syncytial virus (RSV) IgM	12 × 8 tests
681103	Respiratory syncytial virus (RSV) IgA	12 × 8 tests
681151	Tetanus Antitoxin IgG	12 × 8 tests
681251	Yersinia enterocolitica IgG	12 × 8 tests
681252	Yersinia enterocolitica IgM	12 × 8 tests
681253	Yersinia enterocolitica IgA	12 × 8 tests
<b>Chlamydia Antigen</b>		
695010	Mastazyme Chlamydia Ag	12 × 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 | Autoimmune

Order No	Product	Packsizes
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## 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	Packsizes
	<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

### TISSUE SECTIONS

#### Single Tissues

Order No	Product	Packsizes
	<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	Packsizes
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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

<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	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 H2O)	1 bag
626298	Evans Blue	3.0 ml
626280	Cover Slides (24 x 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 unsaleable 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:
  - (a) cancel the Contract or suspend any further deliveries/Services to the Buyer;
  - (b) 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);
  - (c) 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
  - (d) 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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