

Authorisation to Distribute

TCS Biosciences Limited, having registered offices in Botolph Claydon, Buckingham MK18 2LR, England, confirms that:

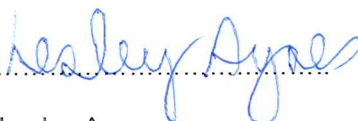
SanMedico SRL, 88/1 Petricani Str, Office 10, MS-2059, mun Chisinau, Republic of Moldova

Is authorised to promote and sell the TCS Biosciences range of products in the Republic of Moldova on a non-exclusive basis.

SanMedico SRL is also authorised to participate in tenders, to submit quotations and to deliver these products within the territory of Republic of Moldova

This letter of authorisation is valid for 1 year from the date of issue but can be terminated by either party provided that a notice period of 3 months is given.

This authorisation may be extended by 1 year, by mutual agreement between TCS Biosciences Limited and SanMedico SRL Limited.

Signed: 

Date: 19th June 2023

Name: Lesley Ayres

Title: Key Account Manager



ISO 9001 FS 28907
ISO 14001 EMS 590359

Registered in England No. 2172900 Vat No. GB 729 8545 85

TCS Biosciences Ltd

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STATEMENT

We, TCS Biosciences Ltd., having a registered office at Botolph Claydon, Buckingham, MK 18 2LR, England assign Sanmedico SRL having a registered office at str. A. Corobceanu 7A, apt. 9, Chişinău MD-2012, Moldova, as Authorized Representative in correspondence with the conditions of directive 98/79/EEC.

We declare that the company mentioned above is authorized to register, notify, renew or modify the registration of medical devices on the territory of the Republic of Moldova.

Date : 21 August 2018

Signature: *Jul Brown*

Certificate of Registration

ENVIRONMENTAL MANAGEMENT SYSTEM - ISO 14001:2015

This is to certify that:

TCS Biosciences Ltd
Botolph Claydon
Buckingham
MK18 2LR
United Kingdom

Holds Certificate Number:

EMS 590359

and operates an Environmental Management System which complies with the requirements of ISO 14001:2015 for the following scope:

The procurement, manufacture, design, development and sale of a range of diagnostic products for clinical, pharmaceutical, food and environmental laboratory testing.

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 2013-06-10

Latest Revision Date: 2022-01-14

Effective Date: 2022-01-27

Expiry Date: 2025-01-26

Page: 1 of 1



...making excellence a habit.™

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015

This is to certify that:

TCS Biosciences Limited
Botolph Claydon
Buckingham
MK18 2LR
United Kingdom

Holds Certificate Number:

FS 28907

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

The procurement, manufacture, design, development and sale of a range of diagnostic products for clinical, pharmaceutical, food and environmental laboratory testing.

For and on behalf of BSI:

Matt Page, Managing Director Assurance - UK & Ireland

Original Registration Date: 1994-08-11

Latest Revision Date: 2022-01-14

Effective Date: 2022-01-27

Expiry Date: 2025-01-26

Page: 1 of 1



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SELF DECLARATION OF CONFORMITY

We declare under our sole responsibility in accordance with MHRA account number 0000009546 that the following CE marked products:

GMDN Term	GMDN Code	TCS product code and description
General microbial isolate identification control IVD	63319	Selectrol – All IMM codes

conform to the relevant provisions of the In-vitro Diagnostic Medical Devices Directive 98/79/EC and The Medical Devices Regulations 2002 (SI 2002 No.618) and The Medical Devices (Amendment) Regulations 2003 (SI 2003 No.1697) for in-vitro diagnostic medical devices.

This declaration is made on the basis of meeting the requirements of Annexes I and III of the In-Vitro Diagnostic Medical Devices Directive 98/79/EC and continued maintenance of an approved Quality Management System meeting the requirements of ISO 9001, as certified by BSI, certificate number FS 28907.

Signed by: Sue Brown

Date: September 2020

Name: Sue Brown
Position: Quality Assurance & Regulatory Affairs Manager

Signed by: Lynda Preston

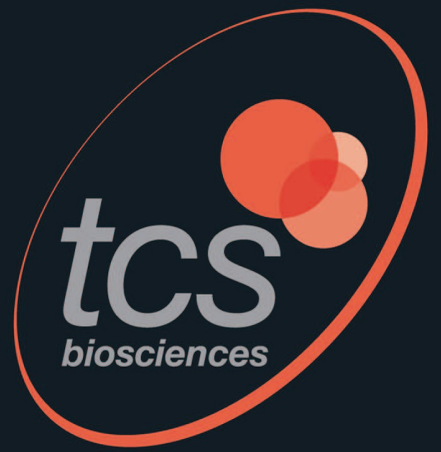
Date: September 2020

Name: Lynda Preston
Position: Managing Director

Manufacturer
TCS Biosciences Ltd
Botolph Claydon
Buckingham MK18 2LR
UK

EC Authorised Representative
TCS Biosciences Europe B.V.
Provincialeweg 6
9864 PD Kornhorn
The Netherlands

accuracy and quality as a science



Selectrol®
Technical
Guide



Selectrol® : Manufactured under licence from Public Health England Culture Collections

SELECTROL® - FREEZE-DRIED ORGANISMS IN A DISC

Quality control of microbial characterisation tests, culture media and antimicrobial susceptibility determinations is best accomplished by the use of microorganisms with well-documented and stable phenotypic and genotypic characteristics.

Bacterial and fungal strains have been selected and recommended by expert bodies, such as **EUCAST**, **CLSI** and the European Pharmacopoeia, on the basis of their suitability for monitoring test performance and ensuring the validity of results for testing used in clinical, food, pharmaceutical, water and veterinary laboratories.

Products derived from the cultures in the collections should be manufactured using the minimum number of sub-cultures, to minimise the possibility of alterations to the phenotype due to mutations. See also page 14.

Selectrol strains are manufactured exclusively from Public Health England Culture Collections (NCTC® and NCPF®) and are first generation subcultures, unlike many products on the market which are 2nd, 3rd or 4th generation subcultures. They are preserved by long-term storage as freeze-dried cells in order to minimise any alterations to the phenotype caused by mutations.

Passages

A Selectrol® disc is a first generation subculture from a **master culture** sourced from Public Health England Culture Collections, and is designed to be used to obtain **working stock** cultures for use in testing. It is generally accepted that no more than a total of five passages should be made from the **master culture**, in order to avoid genetic drift and mutant selection. Therefore, no more than four passages (fresh cultures) from the **working stock** should be made.

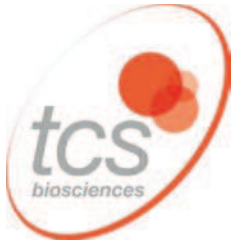
Shelf life

For most strains, Selectrol® discs are guaranteed to contain at least 10⁶ organisms at the time of purchase; this number is sufficient to ensure that when the discs are used and stored as directed there will be viable organisms cultivable up to the stated end of the shelf life, which is usually 9 months from the time the vial is first opened.

Quality Control

Selectrol® batches are tested in our UKAS accredited testing laboratory number 2496. A test report for each batch of Selectrol® can be accessed via our website. The reporting of Selectrol® test results via the website comes under our UKAS accreditation.

Selectrol® cultures are rigorously tested to confirm identity, to confirm the possession of essential phenotypic characteristics and to exclude contamination with other organisms. Photographic evidence of the test results is retained for each batch, along with retained appropriately stored samples.



Glossary

AMRHAI: Antimicrobial Resistance and Healthcare Associated Infections reference unit

ATCC®: American Type Culture Collection. ATCC® strains are listed for reference only. ATCC® is a registered trademark of the American Type Culture Collection.

BSAC: British Society for Antimicrobial Chemotherapy - Now superseded by EUCAST

CLSI: Clinical Laboratory Standards Institute. (USA)

CPE: Carbapenemase Producing Enterobacteriaceae

CRE: Carbapenem Resistant Enterobacteriaceae

Culture collection: Cultures of fully characterised organisms maintained in such a way as to minimise sub-culturing. See page 14.

ESBL: Extended Spectrum Beta-Lactamase-producing organism.

EUCAST: European Committee on Antimicrobial Susceptibility Testing.

First generation derivative: A single passage from a master culture, for example a Selectrol® disc.

Master culture: Culture derived from a reference culture vial.

NCPF®: National Collection of Pathogenic Fungi. NCPF® is a registered trademark of Public Health England.

NCTC®: National Collection of Type Cultures. NCTC® is a registered trademark of Public Health England.

Passage: An equivalent term for a subculture.

PHE: Public Health England.

Reference cultures: Quality control strains selected on the basis of their phenotypic biochemical and antimicrobial susceptibility characteristics to be used as controls in microbiological testing. These are obtained as freeze-dried vials from culture collections.

Stock culture: Cultures derived from a Selectrol® disc, which can be stored for up to a week, usually on agar slants.

Working cultures: Stock cultures further sub-cultured to provide 18-24 hour growth for use in testing.

WDCM: World Data Centre for Microorganisms

WFCC: World Federation for Culture Collections



Culture Collections

Cultures of microorganisms have been deposited and subsequently maintained in 589 collections in 68 countries, and many of the cultures are derived from the same original isolate; the history of each organism, its properties and names of the culture collections which hold it are detailed in the relevant catalogues and websites.

Some of the organisms have been selected and recommended by expert organisations to be supplied as controls for microbiological tests, and when the identical cultures are present in more than one collection they will have a specific designation for each, incorporating the abbreviation for the collection and a reference number.

For example:- *Staphylococcus aureus* NCTC 7447, widely recommended as a control for antimicrobial susceptibility testing, is held in 30 collections, and consequently the phenotypically and genotypically identical organism has 30 different references, such as ATCC 6538P, CIP 53.156, DSM 346 and so on.

In an effort to minimise potential confusion and help users find local sources of reference strains, the WFCC and the WDCM initiated a system that ascribes each recommended QC strain a reference number (WDCM 00001 onwards), cites all collections that contain it and provides contact details and each collection's unique reference. For example, the strain of *Staphylococcus aureus* NCTC 7447 (Selectrol® strain MM33) mentioned above is designated WDCM 00033.

***Staphylococcus aureus* WDCM 00033**

AHU 1142; **ATCC™ 6538P**; BCRC 10451 ; BTCC 209P; BU 395; CCM 2022; CCTM 596; CCUG 1828; CECT 240; CIP 53.156; CN 3784; CNCTC Mau 28/58; DSM 346; FIRDI 451; IAM 1011; IAM 12082; IEM Mau 28/58; IFO 12732; IFO 3061; IID 671; IMET 10904; JCM 2151; LMG 8195; NCIMB 8625; **NCTC 7447**; NRRL B-313; OUT 8232; PCI 1209; PZH 8/54; RIMD 3109007; VNIIA 209P;

Products derived from the cultures in the collections should be manufactured using the minimum number of sub-cultures, to minimise the possibility of alterations to the phenotype due to mutations. Ideally, as in the case of **Selectrol®**, a single sub-culture only is used, so the **Selectrol®** product is a 'first generation derivative' of a culture supplied by NCTC, and will be identical with regard to its properties and suitability for use in QC applications to a culture of the particular organism obtained from any of the other WDCM listed culture collections.

Every effort has been made to ensure the accuracy of the information in this document, however TCS makes no warranties, expressed or implied, regarding errors or omissions and assumes no legal liability or responsibility for loss or damage resulting from the use of information contained within.

Selectrol Strain Index

Strain Name	Designation	Code	WDCM
<i>Aspergillus brasiliensis</i>	NCPF [®] 2275 / ATCC [®] 16404	MM94	00053
<i>Bacillus cereus</i>	NCTC [®] 10320 / ATCC [®] 9634	MM21	00001
<i>Bacillus cereus</i>	NCTC [®] 7464 / ATCC [®] 10876	MM86	
<i>Bacillus subtilis</i>	NCTC [®] 10400 / ATCC [®] 6633	MM29	00003
<i>Bacteroides fragilis</i>	NCTC [®] 9343 / ATCC [®] 25285	MM44	
<i>Campylobacter jejuni</i>	NCTC [®] 11351 / ATCC [®] 33560	MM36	
<i>Campylobacter jejuni</i>	NCTC [®] 11322 / ATCC [®] 29428	MM82	00156
<i>Candida albicans</i>	NCPF [®] 3255 / ATCC [®] 2091	MM28	00055
<i>Candida albicans</i>	NCPF [®] 3179 / ATCC [®] 10231	MM42	00054
<i>Citrobacter freundii</i>	NCTC [®] 9750 / ATCC [®] 8090	MM27	
<i>Clostridium perfringens</i>	NCTC [®] 8237 / ATCC [®] 13124	MM45	00007
<i>Clostridium sporogenes</i>	NCTC [®] 532 / ATCC [®] 19404	MM31	00008
<i>Enterobacter aerogenes</i>	NCTC [®] 10006 / ATCC [®] 13048	MM26	00175
<i>Enterobacter cloacae</i>	NCTC [®] 13380 / ATCC [®] 23355	MM01	00082
<i>Enterobacter cloacae</i>	NCTC [®] 13406	MM51	
<i>Enterococcus faecalis</i>	NCTC [®] 775 / ATCC [®] 19433	MM17	00009
<i>Enterococcus faecalis</i>	NCTC [®] 12697 / ATCC [®] 29212	MM18	00087
<i>Enterococcus faecalis</i>	NCTC [®] 13379 / ATCC [®] 51299	MM52	00085
<i>Enterococcus hirae</i>	NCTC [®] 13383 / ATCC [®] 10541	MM35	00011
<i>Escherichia coli</i>	NCTC [®] 12241 / ATCC [®] 25922	MM02	00013
<i>Escherichia coli</i>	NCTC [®] 11954 / ATCC [®] 35218	MM24	
<i>Escherichia coli</i>	NCTC [®] 10418 / ATCC [®] 10536	MM33	
<i>Escherichia coli</i>	NCTC [®] 12923 / ATCC [®] 8739	MM38	00012
<i>Escherichia coli</i>	NCTC [®] 11560	MM63	
<i>Escherichia coli</i>	NCTC [®] 9001 / ATCC [®] 11775	MM75	00090
<i>Escherichia coli</i> CRE	NCTC [®] 13476	MM57	
<i>Escherichia coli</i> (mcr-1)	NCTC [®] 13846	MM34	
<i>Escherichia coli</i> O157 (non-toxigenic)	NCTC [®] 12900 / ATCC [®] 700728	MM93	00014
<i>Haemophilus influenzae</i>	NCTC [®] 8468 / ATCC [®] 9334	MM100	
<i>Haemophilus influenzae</i>	NCTC [®] 12975 / ATCC [®] 49766	MM37	
<i>Haemophilus influenzae</i>	NCTC [®] 12699 / ATCC [®] 49247	MM81	
<i>Haemophilus influenzae</i>	NCTC [®] 11931	MM98	
<i>Klebsiella aerogenes</i>	NCTC [®] 9528	MM88	
<i>Klebsiella pneumoniae</i>	NCTC [®] 9633 / ATCC [®] 13883	MM04	00097
<i>Klebsiella pneumoniae</i>	NCTC [®] 13368 / ATCC [®] 700603	MM83	
<i>Klebsiella pneumoniae</i> CRE	NCTC [®] 13440	MM55	
<i>Klebsiella pneumoniae</i> CRE	NCTC [®] 13443	MM56	
<i>Klebsiella pneumoniae</i> CRE	NCTC [®] 13438	MM58	

Selectrol Strain Index

Strain Name	Designation	Code	WDCM
<i>Klebsiella pneumoniae</i> CRE	NCTC [®] 13442	MM59	
<i>Lactobacillus brevis</i>	NCTC [®] 13386 / ATCC [®] 8287	MM76	
<i>Legionella pneumophila</i> serogroup 1	NCTC [®] 11192 / ATCC [®] 33152	MM08	00107
<i>Listeria innocua</i>	NCTC [®] 11288 / ATCC [®] 33090	MM92	00017
<i>Listeria monocytogenes</i>	NCTC [®] 7973 / ATCC [®] 35152	MM48	00109
<i>Listeria monocytogenes</i>	NCTC [®] 13372 ATCC [®] 7644	MM77	
<i>Listeria monocytogenes</i>	NCTC [®] 11994	MM87	00019
<i>Neisseria gonorrhoeae</i>	NCTC [®] 8375 / ATCC [®] 19424	MM05	
<i>Neisseria gonorrhoeae</i>	NCTC [®] 12700 / ATCC [®] 49226	MM96	
<i>Proteus mirabilis</i>	NCTC [®] 13376 / ATCC [®] 14153	MM43	
<i>Proteus mirabilis</i>	NCTC [®] 10975	MM68	
<i>Proteus vulgaris</i>	NCTC [®] 4175 / ATCC [®] 13315	MM09	
<i>Pseudomonas aeruginosa</i>	NCTC [®] 12903 / ATCC [®] 27853	MM10	00025
<i>Pseudomonas aeruginosa</i>	NCTC [®] 12924 / ATCC [®] 9027	MM40	00026
<i>Pseudomonas aeruginosa</i>	NCTC [®] 13359 / ATCC [®] 15442	MM41	
<i>Pseudomonas aeruginosa</i>	NCTC [®] 10662 / ATCC [®] 25668	MM65	00114
<i>Rhodococcus equi</i>	NCTC [®] 1621 / ATCC [®] 6939	MM97	00028
<i>Saccharomyces cerevisiae</i>	NCTC [®] 10716/ ATCC [®] 9763	MM50	00058
<i>Saccharomyces cerevisiae</i>	NCPF [®] 3178	MM73	
<i>Salmonella</i> Nottingham	NCTC [®] 7832	MM84	
<i>Salmonella</i> Poona	NCTC [®] 4840	MM89	
<i>Salmonella</i> Typhimurium	NCTC [®] 12023/ ATCC [®] 14028	MM11	00031
<i>Serratia marcescens</i>	NCTC [®] 13382 / ATCC [®] 8100	MM12	
<i>Staphylococcus aureus</i>	NCTC [®] 12981 / ATCC [®] 25923	MM13	00034
<i>Staphylococcus aureus</i>	NCTC [®] 12973 / ATCC [®] 29213	MM14	00131
<i>Staphylococcus aureus</i>	NCTC [®] 7447 / ATCC [®] 6538P	MM30	00033
<i>Staphylococcus aureus</i>	NCTC [®] 10788 / ATCC [®] 6538	MM46	00032
<i>Staphylococcus aureus</i>	NCTC [®] 6571 / ATCC [®] 9144	MM85	00035
<i>Staphylococcus aureus</i> (MRSA)	NCTC [®] 12493	MM64	00212
<i>Staphylococcus aureus</i> (MRSA)	NCTC [®] 13373 / ATCC [®] 43300	MM91	00211
<i>Staphylococcus epidermidis</i>	NCTC [®] 13360 / ATCC [®] 12228	MM15	00036
<i>Streptococcus agalactiae</i>	NCTC [®] 8181 / ATCC [®] 13813	MM16	
<i>Streptococcus pneumoniae</i>	NCTC [®] 12695 / ATCC [®] 6303	MM19	
<i>Streptococcus pneumoniae</i>	NCTC [®] 12977 / ATCC [®] 49619	MM95	
<i>Streptococcus pyogenes</i>	NCTC [®] 12696 / ATCC [®] 19615	MM20	
<i>Vibrio parahaemolyticus</i>	NCTC [®] 10885	MM06	00185
<i>Yersinia enterocolitica</i>	NCTC [®] 12982 / ATCC [®] 9610	MM80	00038

Selectrol Strains Listed by WDCM Number

WDCM	Strain Name	Designation	Code
00001	<i>Bacillus cereus</i>	NCTC [®] 10320 / ATCC [®] 9634	MM21
00003	<i>Bacillus subtilis</i>	NCTC [®] 10400 / ATCC [®] 6633	MM29
00007	<i>Clostridium perfringens</i>	NCTC [®] 8237 / ATCC [®] 13124	MM45
00008	<i>Clostridium sporogenes</i>	NCTC [®] 532 / ATCC [®] 19404	MM31
00009	<i>Enterococcus faecalis</i>	NCTC [®] 775 / ATCC [®] 19433	MM17
00011	<i>Enterococcus hirae</i>	NCTC [®] 13383 / ATCC [®] 10541	MM35
00012	<i>Escherichia coli</i>	NCTC [®] 12923 / ATCC [®] 8739	MM38
00013	<i>Escherichia coli</i>	NCTC [®] 12241 / ATCC [®] 25922	MM02
00014	<i>Escherichia coli</i> O157 (non-toxigenic)	NCTC [®] 12900 / ATCC [®] 700728	MM93
00017	<i>Listeria innocua</i>	NCTC [®] 11288 / ATCC [®] 33090	MM92
00019	<i>Listeria monocytogenes</i>	NCTC [®] 11994	MM87
00025	<i>Pseudomonas aeruginosa</i>	NCTC [®] 12903 / ATCC [®] 27853	MM10
00026	<i>Pseudomonas aeruginosa</i>	NCTC [®] 12924 / ATCC [®] 9027	MM40
00028	<i>Rhodococcus equi</i>	NCTC [®] 1621 / ATCC [®] 6939	MM97
00031	<i>Salmonella</i> Typhimurium	NCTC [®] 12023 / ATCC [®] 14028	MM11
00032	<i>Staphylococcus aureus</i>	NCTC [®] 10788 / ATCC [®] 6538	MM46
00033	<i>Staphylococcus aureus</i>	NCTC [®] 7447 / ATCC [®] 6538P	MM30
00034	<i>Staphylococcus aureus</i>	NCTC [®] 12981 / ATCC [®] 25923	MM13
00035	<i>Staphylococcus aureus</i>	NCTC [®] 6571 / ATCC [®] 9144	MM85
00036	<i>Staphylococcus epidermidis</i>	NCTC [®] 13360 / ATCC [®] 12228	MM15
00038	<i>Yersinia enterocolitica</i>	NCTC [®] 12982 / ATCC [®] 9610	MM80
00053	<i>Aspergillus brasiliensis</i>	NCPF [®] 2275 / ATCC [®] 16404	MM94
00054	<i>Candida albicans</i>	NCPF [®] 3179 / ATCC [®] 10231	MM42
00055	<i>Candida albicans</i>	NCPF [®] 3255 / ATCC [®] 2091	MM28
00058	<i>Saccharomyces cerevisiae</i>	NCTC [®] 10716 / ATCC [®] 9763	MM50
00082	<i>Enterobacter cloacae</i>	NCTC [®] 13380 / ATCC [®] 23355	MM01
00085	<i>Enterococcus faecalis</i>	NCTC [®] 13379 / ATCC [®] 51299	MM52
00087	<i>Enterococcus faecalis</i>	NCTC [®] 12697 / ATCC [®] 29212	MM18
00090	<i>Escherichia coli</i>	NCTC [®] 9001 / ATCC [®] 11775	MM75
00097	<i>Klebsiella pneumoniae</i>	NCTC [®] 9633 / ATCC [®] 13883	MM04
00107	<i>Legionella pneumophila</i> serogroup 1	NCTC [®] 11192 / ATCC [®] 33152	MM08
00109	<i>Listeria monocytogenes</i>	NCTC [®] 7973 / ATCC [®] 35152	MM48
00114	<i>Pseudomonas aeruginosa</i>	NCTC [®] 10662 / ATCC [®] 25668	MM65
00131	<i>Staphylococcus aureus</i>	NCTC [®] 12973 / ATCC [®] 29213	MM14
00156	<i>Campylobacter jejuni</i>	NCTC [®] 11322 / ATCC [®] 29428	MM82
00175	<i>Enterobacter aerogenes</i>	NCTC [®] 10006 / ATCC [®] 13048	MM26
00185	<i>Vibrio parahaemolyticus</i>	NCTC [®] 10885	MM06
00211	<i>Staphylococcus aureus</i> (MRSA)	NCTC [®] 13373 / ATCC [®] 43300	MM91
00212	<i>Staphylococcus aureus</i> (MRSA)	NCTC [®] 12493	MM64



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