

IVD solutions through partnership



# PRODUCT CATALOGUE 2019-2020

# Welcome

**Welcome to the Mast Group Ltd product catalogue effective from January 1st 2019. 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 | 2019

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  
Fax: +44 151 944 1332  
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.

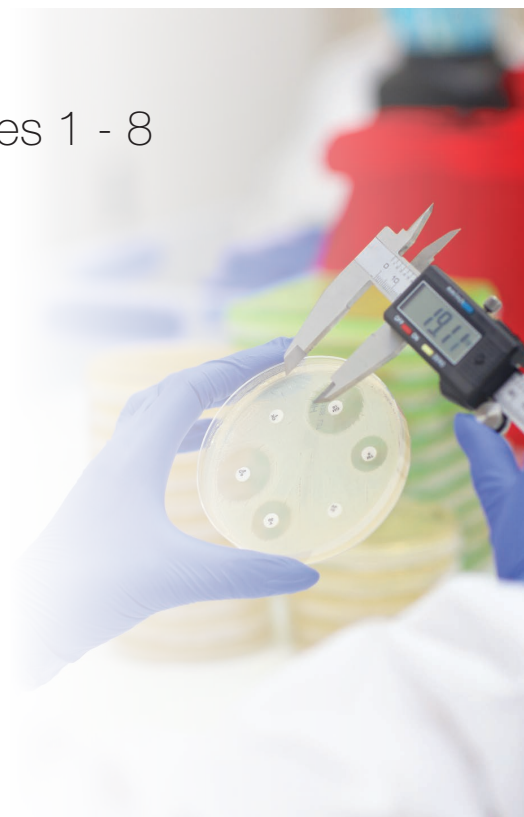
## CONDITIONS OF SALE

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 - 34

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 35

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

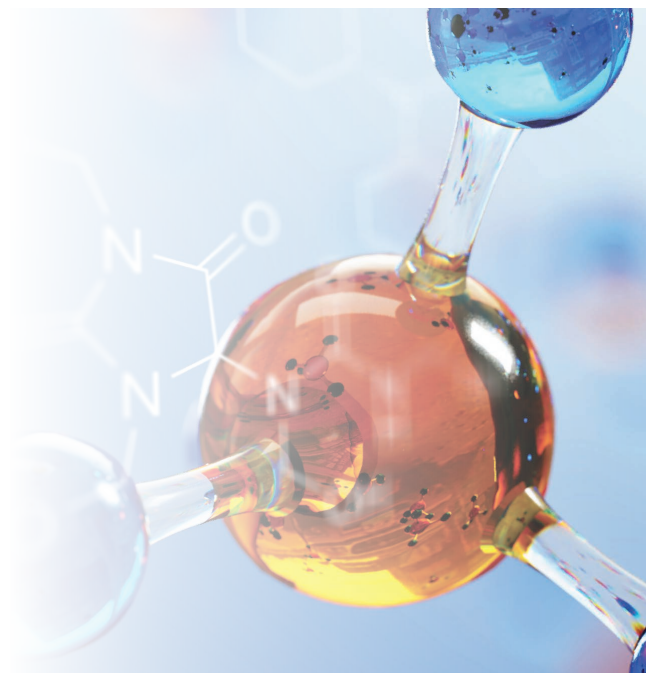
## Contents

### Molecular Biology | Page 36

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 37 - 39

#### 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 40 - 42

#### 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.

Another point to understand is that we can only manufacture in certain increments above the minimum quantity – our prices are based on this. In addition lower prices may be available for orders at the optimum level.

**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 there is an evaluation process 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® SELECTAVIAL and MAST® SELECTATAB products are dependent on customer specifications and pack size. Minimum order quantity and prices will be confirmed by quotation.

# Disc Diffusion Susceptibility Testing


Order No

Product

Packsize

## MAST® DISCMASTER DISPENSER

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

MDD65	MAST® DISCMASTER Dispenser - 6 place		1
SILICA63	Silica Gel Capsule For Mast Disc Dispenser		1
SHD5	Single Cartridge Hand Dispenser		5
CANISTER	MAST® DISCMASTER Canister		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
FUNGART	Stock Antifungal Cartridge Discs of a single type	1 pack
SPECIALCART	Cartridge Discs made to special order*	Min 18 packs
VOLCART	Cartridge Discs made to special order*	Min 98 packs

### MASTDISCS® (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
VOLDISC	Discs made to special order*	Min 97 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 & Strength µg per disc (unless otherwise stated)	STANDARD			Order Code Cartridges 5 × 50 discs
	BSAC	EUCAST	CLSI	
				
Amikacin 30	✓	✓	✓	AK30C
Amoxicillin 2	✓	-	-	A2C
Amoxicillin 10	✓	-	-	A10C
Amoxicillin 25	✓	-	-	A25C
Ampicillin 2	✓	✓	-	AP2C
Ampicillin 10	✓	✓	✓	AP10C
Ampicillin 25	✓	-	-	AP25C
Ampicillin/Sulbactam 10-10	-	-	✓	SAM20C
Amoxicillin/clavulanic acid 2-1	✓	✓	-	AUG3C
Amoxicillin/clavulanic acid 20-10	✓	✓	✓	AUG30C
Azithromycin 15	✓	✓	✓	ATH15C
Aztreonam 30	✓	✓	✓	ATM30C
Bacitracin 10 units	-	-	-	BA10C
Cefaclor 30	✓	✓	✓	CFC30C
Ceftibuten 30	-	✓	✓	CFB30C
Cefamandole 30	✓	-	✓	CMD30C
Cefadroxil 30	✓	✓	-	CDX30C
Cefepime 30	✓	✓	✓	CPM30C

# Disc Diffusion Susceptibility Testing

**MAST**DISCS<sup>®</sup>AST

## ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES

### STOCK RANGE


Description Antibiotic & Strength µg per disc (unless otherwise stated)	STANDARD			Order Code Cartridges 5 × 50 discs
	BSAC	EUCAST 	CLSI	
Cefixime 5	✓	✓	✓	CFM5C
Cefoperazone 30	✓	-	-	CPZ30C
Cefotaxime 5	✓	✓	-	CTX5C
Cefotaxime 30	✓	-	✓	CTX30C
Cefoxitin 10	✓	-	-	FOX10C
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
Ceftriaxone 5	✓	-	✓	CRO5C
Ceftriaxone 30	✓	✓	✓	CRO30C
Ceftolozane/tazobactam 30-10	-	✓	✓	CT40C
Cefuroxime 5	✓	-	-	CXM5C
Cefalexin 30	✓	-	-	CFX30C
Cefradine 30	✓	-	-	CRD30C
Cefuroxime 30	✓	✓	✓	CXM30C
Cephalothin 30	✓	-	✓	KF30C
Cefazolin 30	-	-	✓	CZ30C
Chloramphenicol 10	✓	-	-	C10C
Chloramphenicol 30	✓	✓	✓	C30C
Ciprofloxacin 1	✓	-	-	CIP1C
Ciprofloxacin 5	✓	✓	✓	CIP5C
Clarithromycin 2	✓	-	-	CLA2C
Clarithromycin 5	✓	-	-	CLA5C
Clarithromycin 15	-	✓	✓	CLA15C
Clindamycin 2	✓	✓	✓	CD2C
Delafloxacin <b>NEW</b>	-	✓	✓	DLX5C
Doripenem 10	-	✓	✓	DOR10C
Doxycycline 30	✓	-	✓	DXT30C
Enrofloxacin 5	-	-	✓	ENF5C
Eravacycline 20 <b>NEW</b>	-	✓	✓	ERV20C
Ertapenem 10	✓	✓	✓	ETP10C
Erythromycin 5	✓	-	-	E5C
Erythromycin 15	-	✓	✓	E15C
Florfenicol 30	-	-	-	FFC30
Fosfomycin 200/Glucose-6-Phosphate 50	✓	-	✓	FOT200C
Fusidic Acid 10	✓	✓	-	FC10C
Gentamicin 10	✓	✓	✓	GM10C
Gentamicin 30	-	✓	-	GM30C
Gentamicin 120	-	-	✓	GM120C
Gentamicin 200	✓	-	-	GM200C
Imipenem 10	✓	✓	✓	IMI10C
Kanamycin 30	-	-	✓	K30C
Levofloxacin 1	✓	-	-	LEV1C
Levofloxacin 5	✓	✓	✓	LEV5C
Linezolid 10	✓	✓	-	LZD10C
Linezolid 30	-	-	✓	LZD30C
Mecillinam 10	✓	✓	✓	MEC10C
Meropenem 10	✓	✓	✓	MEM10C
Meropenem / Vaborbactam 20-10 <b>NEW</b>	-	✓	✓	MEV30C
Metronidazole 5	✓	-	-	MZ5C
Minocycline 30	✓	-	✓	MN30C

# Disc Diffusion Susceptibility Testing

**MAST**DISCS®AST

## ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES


### STOCK RANGE

Description Antibiotic & Strength µg per disc (unless otherwise stated)	STANDARD			Order Code Cartridges 5 × 50 discs
	BSAC	EUCAST 	CLSI	
Moxifloxacin 1	✓	-	-	MXF1C
Moxifloxacin 5	✓	✓	✓	MXF5C
Mupirocin 5	✓	-	-	MUP5C
Mupirocin 20	✓	-	-	MUP20C
Mupirocin 200	-	✓	-	MUP200C
Nalidixic Acid 30	✓	✓	✓	NA30C
Neomycin 10	✓	-	-	NE10C
Neomycin 30	-	-	-	NE30C
Netilmicin 10	-	✓	-	NET10C
Netilmicin 30	✓	✓	-	NET30C
Nitrofurantoin 100	-	✓	-	NI100C
Nitrofurantoin 200	✓	-	-	NI200C
Nitrofurantoin 300	-	-	✓	NI300C
Nitroxoline 30	-	✓	-	NIB30C
Norfloxacin 2	✓	-	-	NOR2C
Norfloxacin 10	-	✓	✓	NOR10C
Novobiocin 5	-	-	-	NO5C
Ofloxacin 5	✓	✓	✓	OFX5C
Oxacillin 1	✓	✓	✓	OX1C
Pefloxacin 5	-	✓	-	PEF5C
Penicillin G 1 unit	✓	✓	-	PG1C
Penicillin G 10 units	-	-	✓	PG10C
Piperacillin 30	-	-	-	PRL30C
Piperacillin 75	✓	-	-	PRL75C
Piperacillin 100	-	-	✓	PRL100C
Piperacillin/tazobactam 30-6	-	✓	-	PTZ36C
Piperacillin/tazobactam 75-10	✓	-	-	PTZ85C
Piperacillin/tazobactam 100-10	-	-	✓	PTZ110C
Polymyxin B 300 units	-	-	-	PB300C
Quinupristin/dalfopristin 15	✓	-	✓	SYN15C
Rifampicin 2	✓	-	-	RP2C
Rifampicin 5	✓	✓	✓	RP5C
Spectinomycin 25	✓	-	-	SPC25C
Streptomycin 10	✓	-	✓	S10C
Streptomycin 300	-	✓	✓	S300C
Teicoplanin 30	✓	-	✓	TEC30C
Temocillin 30	✓	-	-	TEM30C
Tetracycline 10	✓	-	-	T10C
Tetracycline 30	-	✓	✓	T30C
Ticarcillin 75	✓	-	✓	TC75C
Tigecycline 15	✓	✓	✓	TGC15C
Ticarcillin/clavulanic acid 75-10	✓	-	✓	TIM85C
Tobramycin 10	✓	✓	✓	TN10C
Trimethoprim 2.5	✓	-	-	TM2.5C
Trimethoprim 5	✓	✓	✓	TM5C
Trimethoprim/sulfamethoxazole 1.25/23.75	✓	✓	✓	TS25C
Vancomycin 5	✓	✓	-	VA5C
Vancomycin 30	-	-	✓	VA30C
Blank discs	-	-	-	BD0680W/C

# Disc Diffusion Susceptibility Testing

## MASTDISCS<sup>®</sup>AST

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

Description Antibiotic & Strength µg per disc (unless otherwise stated)	STANDARD			Order Code Cartridges 5 × 50 discs
	BSAC	EUCAST	CLSI	
				
Carbenicillin 100	✓	-	✓	PY100C
Telithromycin 15	✓	-	✓	TEL15C
Colistin 10	-	-	-	CO10C/NCE
Colistin 25	-	-	-	CO25C/NCE

### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS

Antibiotic & Strength (unless otherwise stated)

Veterinary Cartridges  
5 × 50 discs

Cefquinome 30	CEQ30C/NCE
Gamithromycin 15	GAM15C/NCE
Pradofloxacin 5	PRA5/NCE
Marbofloxacin 5	MAR5/NCE
Tildipirison 60	TIP60/NCE
Tylosin 30	TY30C/NCE

### STOCK RANGE

Description Antibiotic & Strength µg per disc (unless otherwise stated)	STANDARD			Order Code Vials 100 discs
	BSAC	EUCAST	CLSI	
				
Amikacin 30	✓	✓	✓	AK30
Bacitracin 8 units	-	-	-	BA8
Bacitracin 10 units	-	-	-	BA10
Cefpodoxime 10	✓	✓	✓	CPD10
Chloramphenicol 10	✓	-	-	C10
Chloramphenicol 30	✓	✓	✓	C30
Gentamicin 10	✓	✓	✓	GM10
Meropenem 10	✓	✓	✓	MEM10
Metronidazole 2.5	-	-	-	MZ2.5
Metronidazole 5	✓	-	-	MZ5
Nalidixic Acid 30	✓	✓	✓	NA30
Novobiocin 5	-	-	-	NO5
Oxacillin 1	✓	✓	✓	OX1
Penicillin G 1 unit	✓	✓	-	PG1
Penicillin G 2 units	-	-	-	PG2
Rifampicin 5	✓	✓	✓	RP5
Tylosin 30	-	-	-	TY30
Vancomycin 5	✓	✓	-	VA5
Blank discs	-	-	-	BD0638W

## MASTDISCS<sup>®</sup>AST

### ANTIFUNGAL SUSCEPTIBILITY DISCS IN CARTRIDGES AND VIALS - STOCK RANGE

Description Antibiotic & Strength µg per disc (unless otherwise stated)	Order Code	
	Cartridges 5 × 50 discs	Vials 100 discs
Amphotericin B 20	AMB20C	-
Clotrimazole 10	CTM10C	-
Econazole 10	ECN10C	-
Fluconazole 10	FCN10C	-
Fluconazole 25	FCN25C	FCN
Flucytosine 1	FY1C	-
Ketoconazole 10	KCA10C	-
Miconazole 10	MCL10C	-
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	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	AmpC	50 tests
D71C	MAST® CAT-ID - For presumptive identification of Carbapenemase production		250 tests
D72C	AmpC, ESBL & Carbapenemase Detection Set	AmpC/ESBL/Carba	50 tests
D73C	MAST® CARBA PLUS	MBL/KPC/OXA	50 tests
D74	MAST® ICT	MBL/KPC/OXA	25 tests
	Carbapenemases/Enterobacterales/ <i>Pseudomonas</i> / <i>Acinetobacter</i>		
TEM30C	To aid presumptive identification of OXA-48		5 × 50 discs

## MASTDISCS® AST

### LOW STRENGTH PENICILLIN DISCS

**For detecting the emergence of penicillin resistance.** (vials of 100 discs or 5 × 50 discs in cartridges)

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

**The following discs are available to special order and subject to 6 week lead time.**

PG0.03	Penicillin G (vials)	0.03 unit	Min order 22 vials
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### HIGH STRENGTH AMINOGLYCOSIDE DISCS

**The following discs are available to special order and subject to 6 week lead time.**

**For detecting high level aminoglycoside resistance.** (vials of 100 discs or 5 × 50 discs in cartridges)

GM500C	Gentamicin (cartridges)	500µg	Min order
K1000	Kanamycin (vials)	1000µg	18 pks
K1000C	Kanamycin (cartridges)	1000µg	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

#### M13/NCE 8 tips 1 tin

C	Chloramphenicol	25µg
E	Erythromycin	5µg
FC	Fusidic acid	10µg
OX	Oxacillin	5µg
NO	Novobiocin	5µg
PG	Penicillin G	1 unit
S	Streptomycin	10µg
T	Tetracycline	25µg

#### M43/NCE 8 tips 1 tin

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

### Systemic Gram Negative Rings

#### M14/NCE 8 tips 1 tin

AP	Ampicillin	10µg
KF	Cephalothin	5µg
CO	Colistin Sulphate	25µg
GM	Gentamicin	10µg
S	Streptomycin	10µg
ST	Sulphatriad	200µg
T	Tetracycline	25µg
TS	Cotrimoxazole	25µg

### Urine Rings

#### M26/NCE 8 tips 1 tin

AP	Ampicillin	25µg
C	Chloramphenicol	50µg
CO	Colistin Sulphate	100µg
K	Kanamycin	30µg
NA	Nalidixic acid	30µg
NI	Nitrofurantoin	50µg
S	Streptomycin	25µg
T	Tetracycline	100µg

Special order rings are subject to 6 week lead time.

TOOL/M	*Set up charge for MASTRING SPECIAL: MASTRING SPECIAL (letter coded)	Per new specification
MASTRING SPECIAL	MASTRING-S® to individual specification. Minimum order 10 tins of 100 rings	10-19 tins
MASTRING20	*Letter coded rings require an initial order of 20 tins and are subject to a set up charge.	20 tins and over

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/AK0.8	Amikacin 0.8mg	1 tablet per 100ml	25 tablets
TAB/AK3.2	Amikacin 3.2mg	1 tablet per 100ml	25 tablets
TAB/A0.8	Amoxicillin 0.8mg	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/AUG0.8	Amoxicillin/clavulanic acid 0.8mg	1 tablet per 100ml	25 tablets
TAB/AUG3.2	Amoxicillin/clavulanic acid 3.2mg	1 tablet per 100ml	25 tablets
TAB/CPD0.1	Cefpodoxime 0.1 mg	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/CAZ0.2	Ceftazidime 0.2mg	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/CXM0.8	Cefuroxime 0.8mg	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 1.6mg	1 tablet per 100ml	25 tablets
TAB/MEM1.6	Meropenem 0.4mg	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 0.2 mg	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

# Multipoint Technology

Order No	Product	Packsize
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## ADATAB® TO SPECIAL ORDER

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

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

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

IDM21/A	Aesculin Agar	1 pack
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
IDM4/A	Inositol Agar	1 pack
IDM26/A	LDC Agar	1 pack
IDM28/A	Motility Test Agar	1 pack
IDM30/A	ODC Agar	1 pack
IDM31/A	Phenylalanine Agar	1 pack
IDM8/A	Rhamnose Agar	1 pack
IDM9/A	Sorbitol Agar	1 pack

## MASTURI<sup>®</sup>DOT

### AUTOMATIC MULTIPOINT INOCULATOR

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

SCANURIDOT	Mast <b>Uri<sup>®</sup>Dot</b> 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
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#### Accessories (must be ordered separately)

SCANES019	Equipment set for 19 point inoculation - Stainless steel inoculum pot and head, with 19 × 0.3µl inoculum pins	1 Set
SCANES019N	Equipment set for 19 point inoculation - Stainless steel inoculum pot and head, with 19 × 1µl inoculum pins	1 Set
SCANES036	Equipment set for 36 point inoculation - Stainless steel pot and head, with 36 × 0.3µl inoculum pins	1 Set
SCANES036N	Equipment set for 36 point inoculation - Stainless steel pot and head, with 36 × 1µl inoculum pins	1 Set
SCANES096	Equipment set for 96 point inoculation - stainless steel inoculum head & 96 × 0.3µl pins (for use with microtitre tray)	1 Set
SCANES096N	Equipment set for 96 point inoculation - stainless steel inoculum head & 96 × 1µl pins for use with microtitre tray)	1 Set
SCAN 110	0.3µl Inoculum pin, stainless steel	1
SCAN 110N	1ul Inoculum pin, stainless steel	1
SCAN111SS	Inoculum head, 19 pin (0.3µl), stainless steel	1
SCAN112SS	Inoculum head, 36 pin (0.3µl), stainless steel	1
SCAN113SS	Inoculum pot, 19 well, stainless steel	1
SCAN114SS	Inoculum pot, 36 well, stainless steel	1
SCAN 496	Inoculum head, 96 pin (0.3µl), stainless steel	1
SCAN 496N	Inoculum head, 96 pin (1µl), stainless steel	1
SCAN 120	Marker Assembly	1

# MASTURI<sup>®</sup> SYSTEM

## Subject to a lead time of 8 weeks

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

Comprising the **Uri**<sup>®</sup>Plus 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> Plus Analyser	1
SCANURIWELL	Mast <b>Uri</b> <sup>®</sup> Well Dispensing aid	1
SCANURIDOT	Mast <b>Uri</b> <sup>®</sup> Dot Inoculator	1
URIINTER	Mast <b>Uri</b> <sup>®</sup> Plus Interface Module	1
URIMAIN	Mast <b>Uri</b> <sup>®</sup> Plus Maintenance contract	1
SCANURILOCATE	Mast <b>Uri</b> <sup>®</sup> locator orientation marker pin 1.6mm	1
SCANURILOCATEN	Mast <b>Uri</b> <sup>®</sup> locator orientation marker pin 2.4mm	1

# MASTURI<sup>®</sup> ACCESSORIES

URILOCATE	Mast <b>Uri</b> <sup>®</sup> locate reagent	14ml
SCANURIRACK	Mast <b>Uri</b> <sup>®</sup> Rack storage accessory	1
SCANURIPREP	Mast <b>Uri</b> <sup>®</sup> Prep (includes <b>Uri</b> <sup>®</sup> Prep tablet and barcode reader)	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 Group Ltd's ability to produce. Antibiotic and identification plates can be combined to constitute individual plate sets according to specific laboratory requirements. Price by quotation.

## 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
DM269D	Buffered Rappaport Vassiliadis Broth
DM111D	C.L.E.D. with Andrade's Indicator
DM215D	D.S.T. Agar (Sulphonamide Antagonist Free)
DM132D	DNase Agar
DM133D	Eosin Methylene Blue Agar
DM150D	MacConkey Broth
DM171D	Mueller Hinton Broth
DM180D	Nutrient Broth
DM185D	Peptone Water
DM195D	Plate Count Agar
DM218D	T.C.B.S. Cholera Medium
DM228D	Urea Agar Base
DM493D	Violet Red Bile (Glucose) Agar
DM480D	Violet Red Bile (Lactose) Agar
DM235D	Wilkins Chalgren Agar
DM496D	Yeast Extract Agar
DM252D	Yersinia Agar Base
DM106D	Brain Heart Infusion Broth
DM494D	Buffered Peptone Water
DM253D	Burkholderia cepacia Medium
DM470D	C.E.M.O. Agar
DM110D	C.L.E.D. Medium
DM115D	Columbia Agar
DM130D	D.C.A. (Hynes)
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
DM160D	Mannitol Salt Agar
DM170D	Mueller Hinton Agar
DM179D	Nutrient Agar
DM251D	Preston Blood Free Campylobacter Agar Base
DM205D	S.S. Agar
DM200D	Sabouraud Dextrose Agar
DM211D	Simmons Citrate Agar
DM491D	Sorbitol MacConkey Agar
DM219s	Tetrathionate Broth 460g
DM221D	Thioglycollate Broth USP
DM224D	Triple Sugar Iron Agar (TSI)
DM225D	Tryptone Soy Agar
DM226D	Tryptone Soy Broth
DM228D	Urea Agar Base
DM230D	X.L.D. Agar

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

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

# Culture Media & Supplements

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

**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.

5 kg packs of media are available to Special order

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

<b><i>Actinomycete Selection</i></b>			
MS25	Actinomycete Selectatab	1 tab per 100ml	25 tablets
DM115D	Columbia Agar		500g
<b><i>Anaerobe Isolation</i></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><i>Bordetella Selection</i></b>			
MS10	Cefalexin Selectatab	1 tab per 100ml	25 tablets
<b><i>Burkholderia cepacia Selection</i></b>			
MS22	Burkholderia cepacia Selectatab	1 tab per 100ml	25 tablets
SV22	Burkholderia cepacia Selectavial	1 vial per 500ml	10 vials
DM253D	Burkholderia cepacia Medium		500g
<b><i>Campylobacter Selection</i></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><i>Campylobacter Selective Enrichment</i></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><i>C.E.M.O Selection (T equigenitalis)</i></b>			
MS31	C.E.M.O. 1 Selectatab	1 tab per 100ml	25 tablets
MS32	C.E.M.O. 2 Selectatab	1 tab per 100ml	25 tablets
MS60	C.E.M.O. Supplement Selectatab	1 tab per 500ml	10 tablets
DM470D	C.E.M.O Agar		500g

# Culture Media & Supplements

Order No	Product	Usage	Packsize
SV23	<b><i>Clostridium difficile</i> Selection</b> Clostridium difficile Selectavial	1 vial per 500ml	10 vials
DM491D	<b><i>E.coli</i> O157 Selection</b> Sorbitol MacConkey Agar		500g
DM494D	<b><i>E.coli</i> O157 Enrichment</b> Buffered Peptone water		500g
DM115D	Columbia Agar		500g
MS15	<b><i>Gardnerella</i> Selection</b> Gardnerella Selectatab	1 tab per 250ml	25 tablets
DM115D	Columbia Agar		500g
SV5	<b><i>G.C.</i> 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><i>Haemophilus</i> 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><i>Legionella</i> 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><i>Legionella</i> Enrichment</b> Legionella Growth Supplement (L-CYS)	1 vial per 500ml	10 vials
DM258D	Legionella B.Y.C.E Agar Base		500g
SV33	<b><i>Listeria</i> Selection</b> Listeria Selectavial (Oxford) Formula	1 vial per 500ml	10 vials
DM256D	Listeria Selective Agar Base ( Oxford)		500g
SV34	<b><i>Listeria</i> Enrichment</b> Listeria Selectavial (Selective Enrichment)	1 vial per 500ml	10 vials
MS24	<b><i>Mycobacteria</i> Selection</b> Mycobacteria Selectatab (Kirchner)	1 tab per 500mls	10 tablets
SV40	Sputagest Selectavial	1 vial per 100ml	10 vials
MS2	<b><i>Proteus- Inhibition of Swarming</i></b> P.N.P.G. Selectatab	1 tab per 100ml	25 tablets
MS2A	P.N.P.G. Selectatab	1 tab per 500ml	10 tablets

# Culture Media & Supplements

Order No	Product	Usage	Packsize
DM440D	<b>Salmonella Selection</b> M.S.R.V. (Salmonella) Medium		500g
MS29	<b>Staphylococcus aureus Isolation (Methicillin resistant)</b> MRSA Selectatab (Oxacillin)	1 tab per 100ml	25 tablets
DM160D	Mannitol Salt Agar		500g
DM215D	<b>Staphylococcus aureus <math>\beta</math>-lactamase induction</b> D.S.T. Agar (Sulphonamide Antagonist Free)		500g
MS12	Streptococcus Selection Streptococcus Selectatab	1 tab per 250ml	25 tablets
DM101D	Blood Agar Base Special		500g
DM115D	Columbia Agar		500g
SV11	<b>Staphylococcus/Streptococcus Selection</b> Staph/Strep Selectavial	1 vial per litre	10 vials
DM115D	Columbia Agar		500g
MS19	<b>Yersinia Selection</b> Yersinia Selectatab	1 tab per 250ml	25 tablets
DM252D	Yersinia Agar Base		500g
SV54	<b>Yeast &amp; Mould Isolation</b> 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 Group Ltd's 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 x 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 6 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

## SELECTIVE SUPPLEMENTS

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

MS25	Actinomycete Selectatab	1 tab per 100ml	25 tablets
MS22	Burkholderia cepacia Selectatab	1 tab per 100ml	25 tablets
SV22	Burkholderia cepacia Selectavial	1 vial per 500ml	10 vials
MS31	C.E.M.O. 1 Selectatab	1 tab per 100ml	25 tablets
MS32	C.E.M.O. 2 Selectatab	1 tab per 100ml	25 tablets
MS60	C.E.M.O. Supplement Selectatab	1 tab per 500ml	10 tablets
MS26	Camp Selectatab (Modified Butzler)	1 tab per 500ml	10 tablets
MS18	Camp Selectatab (Preston Blood Free)	1 tab per 250ml	25 tablets
MS3	Camp Selectatab (Skirrow)	1 tab per 250ml	25 tablets
SV18	Camp Selectavial (Preston Blood Free)	1 vial per litre	10 vials
SV61	Campylobacter Growth Supplement	1 vial per 1.125 litres	10 vials
SV59	Campylobacter Selective Supplement	1 vial per 1.125 litre	10 vials
MS10	Cefalexin Selectatab	1 tab per 100ml	25 tablets
SV54	Chloramphenicol Selectavial	1 vial per 500ml	10 vials
SV23	Clostridium difficile Selectavial	1 vial per 500ml	10 vials
SV16	G.C. Growth Selectavial	1 vial per litre	10 vials
SV20	G.C. Selectavial (L.C.A.T.)	1 vial per litre	10 vials
SV6	G.C. Selectavial (V.C.N.T.)	1 vial per litre	10 vials
SV5	G.C. Selectavial (V.C.T.)	1 vial per litre	10 vials
MS15	Gardnerella Selectatab	1 tab per 250ml	25 tablets
SV94	GVPN Selectavial	1 vial per 500ml	10 vials
MS27	Haemophilus Selectatab (Bacitracin)	1 tab per 100ml	25 tablets
SV27	Haemophilus Selectavial (Bacitracin)	1 vial per litre	10 vials
SV35	Legionella Growth Supplement (L-CYS)	1 vial per 500ml	10 vials
SV36	Legionella Selectavial (MWY)	1 vial per 500ml	10 vials
SV37	Legionella Selectavial(PNV)	1 vial per 500ml	10 vials
SV33	Listeria Selectavial (Oxford) Formula	1 vial per 500ml	10 vials
MS29	MRSA Selectatab (Oxacillin)	1 tab per 100ml	25 tablets
MS24	Mycobacteria Selectatab (Kirchner)	1 tab per 500ml	10 tablets
SV82	NAD Selectavial	1 vial per litre	10 vials
SV9	Nalidixic Acid Selectavial	1 vial per litre	10 vials
MS8	Neomycin Selectatab	1 tab per 100ml	25 tablets
MS8A	Neomycin Selectatab	1 tab per 500ml	10 tablets
SV8	Neomycin Selectavial	1 vial per litre	10 vials
MS2	P.N.P.G. Selectatab	1 tab per 100ml	25 tablets
MS2A	P.N.P.G. Selectatab	1 tab per 500ml	10 tablets
SV2	P.N.P.G. Selectavial	1 vial per litre	10 vials
SV40	Sputagest Selectavial	1 vial per 100ml	10 vials
MS11	Staph/Strep Selectatab	1 tab per 250ml	25 tablets
SV11	Staph/Strep Selectavial	1 vial per litre	10 vials
MS12	Streptococcus Selectatab	1 tab per 250ml	25 tablets
MS19	Yersinia Selectatab	1 tab per 250ml	25 tablets



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

# Miscellaneous Laboratory Products

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

CAMP-ID	MAST® CAMP-ID IDENTIFICATION SYSTEM. A 3 test system for the presumptive identification of thermophilic <i>Campylobacter</i> spp.	10 tests
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## MAST RAPID SLIDE LATEX TESTS & ASSOCIATED PRODUCTS

RST 101	MAST® STAPH Latex agglutination test for identification of <i>Staph.aureus</i> (see also Media & Supplements)	120 tests
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### Available to Special Order. Lead time 6-8 weeks

RST 201	MAST® STREP - Enzyme Extraction. Latex agglutination test for grouping of streptococci. Identifies Lancefield groups A, B, C, D, F & G. (ref to Media & supplements)	50 tests
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 <i>Staphylococcus aureus</i>	48 tests
RST601	MAST® ALEX RA80 Rheumatoid Factor latex test kit. Consists of latex, test cards and controls.	100 tests
RST602	MAST® ALEX RA80 Rheumatoid Factor latex reagents only.	500 tests
RST7001	MAST® TOXOREAGENT - Toxoplasma test Complete kit for detection of Toxoplasma antibody comprising latex suspension, buffer and positive control serum.	50 tests

## RAPID DETECTION OF $\beta$ -LACTAMASE PRODUCTION

ETO/1	MAST® ID Intralactam Strips	25 strips
ETO2	MAST® ID Intralactam Circles	10 circles
D59	Nitrocefin Discs	50

## MAST®ID IDENTIFICATION STRIPS

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

# Identification Products

Order No	Product	Packsize
<b>IDENTIFICATION OF HAEMOPHILUS SPP.</b>		
MID/XV	MAST® ID XV Mirror ring. MASTRING® containing X+V factor tips.	50 rings
D43	X Factor Discs in vials	100 tests
D43C	X Factor Discs in cartridges	250 tests
D44	V Factor Discs in vials	100 tests
D44C	V Factor Discs in cartridges	250 tests
D45	X+V Factor Discs in vials	100 tests
D45C	X+V Factor Discs in cartridges	250 tests
DM184D	Peptone Agar	500g

## IDENTIFICATION OF NON-SPORING ANAEROBES

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

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

## MAST® ID IDENTIFICATION DISCS IN VIALS

		For presumptive Identification of:	Tests/Pack
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

## MASTDISCS® ID IDENTIFICATION DISCS IN CARTRIDGES

		For presumptive Identification of:	Tests/Pack
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	MAST® CAT-ID	Carbapenemase producers	250

# Identification Products

Order No	Product	Mechanism	Tests/Pack
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## MASTDISCS® Combi

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

D52C	Extended Spectrum $\beta$ Lactamase Set	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	AmpC	50 tests
D71C	MAST® CAT-ID - For presumptive identification of Carbapenemase production		250 tests
D72C	AmpC, ESBL & Carbapenemase Detection Set	AmpC/ESBL/Carba	50 tests
D73C	MAST® CARBA PLUS	MBL/KPC/OXA	50 tests
D74	MAST® ICT	MBL/KPC/OXA	25 tests
	Carbapenemases/Enterobacterales/ <i>Pseudomonas</i> / <i>Acinetobacter</i>		
TEM30C	To aid presumptive identification of OXA-48		5 x 50 discs

### IDENTIFICATION OF MRSA

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) MAST®SELECTATAB	25 x 100ml tabs
OX1	Oxacillin Susceptibility Discs in Vials	100 discs/vial
OX1C	Oxacillin Susceptibility Discs in Cartridges	5 x 50 discs
FOX10	Cefoxitin Susceptibility Discs in Vials	100 discs/vial
FOX10C	Cefoxitin Susceptibility Discs in Cartridges	5 x 50 discs
TAB/OX0.2	Oxacillin 0.4 ADATAB®	25 x 100ml tabs
TAB/FOX0.4	Cefoxitin 0.4 ADATAB®	25 x 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 x 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.	500g

(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

AVAILABLE FROM STOCK

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

### E.COLI O ANTISERA - POLYVALENT

AVAILABLE FROM STOCK

M14263	<i>E.coli</i> POLY 2 Factors O26, O55, O111, O119, O126	2ml
M14270	<i>E.coli</i> POLY 3 Factors O86, O114, O125, O127, O128	2ml
M14287	<i>E.coli</i> POLY 4 Factors O44, O112, O124, O142	2ml

### E.COLI O ANTISERA MONOVALENT

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M12013	<i>E.coli</i> Factor O 1	2ml
M12032	<i>E.coli</i> Factor O6	2ml
M12043	<i>E.coli</i> Factor O8	2ml
M12044	<i>E.coli</i> Factor O15	2ml
M12026	<i>E.coli</i> Factor O18	2ml
M12038	<i>E.coli</i> Factor O20	2ml
M12039	<i>E.coli</i> Factor O25	2ml
M12033	<i>E.coli</i> Factor O27	2ml
M12047	<i>E.coli</i> Factor O28ac	2ml
M12052	<i>E.coli</i> Factor O29	2ml
M12020	<i>E.coli</i> Factor O44	2ml
M12021	<i>E.coli</i> Factor O55	2ml
M12040	<i>E.coli</i> Factor O63	2ml
M12034	<i>E.coli</i> Factor O78	2ml
M12015	<i>E.coli</i> Factor O86a	2ml
M12048	<i>E.coli</i> Factor O112ac	2ml
M12027	<i>E.coli</i> Factor O114	2ml
M12045	<i>E.coli</i> Factor O115	2ml
M12049	<i>E.coli</i> Factor O124	2ml
M12022	<i>E.coli</i> Factor O125	2ml
M12023	<i>E.coli</i> Factor O126	2ml
M12019	<i>E.coli</i> Factor O128	2ml
M12050	<i>E.coli</i> Factor O136	2ml
M12028	<i>E.coli</i> Factor O142	2ml
M12053	<i>E.coli</i> Factor O143	2ml
M12051	<i>E.coli</i> Factor O144	2ml
M12024	<i>E.coli</i> Factor O146	2ml
M12035	<i>E.coli</i> Factor O148	2ml
M12029	<i>E.coli</i> Factor O151	2ml
M12054	<i>E.coli</i> Factor O152	2ml
M12041	<i>E.coli</i> Factor O153	2ml
M12031	<i>E.coli</i> Factor O158	2ml
M12036	<i>E.coli</i> Factor O159	2ml
M12055	<i>E.coli</i> Factor O164	2ml
M12025	<i>E.coli</i> Factor O166	2ml
M12042	<i>E.coli</i> Factor O167	2ml
M12037	<i>E.coli</i> Factor O168	2ml
M12046	<i>E.coli</i> Factor O169	2ml

# Bacterial Agglutinating Antisera

Order No

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Packsize

## MAST<sup>®</sup> ASSURE

### E.COLI O ANTISERA - POLYVALENT

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

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

### E.COLI H ANTISERA MONOVALENT

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M12056	<i>E. coli</i> H-2	5ml
M12057	<i>E. coli</i> H-4	5ml
M12058	<i>E. coli</i> H-5	5ml
M12059	<i>E. coli</i> H-6	5ml
M12060	<i>E. coli</i> H-7	5ml
M12061	<i>E. coli</i> H-9	5ml
M12062	<i>E. coli</i> H-10	5ml
M12063	<i>E. coli</i> H-11	5ml
M12064	<i>E. coli</i> H-12	5ml
M12065	<i>E. coli</i> H-16	5ml
M12066	<i>E. coli</i> H-18	5ml
M12067	<i>E. coli</i> H-19	5ml
M12068	<i>E. coli</i> H-20	5ml
M12069	<i>E. coli</i> H-21	5ml

### E.COLI ANTISERA SETS

M12001	<p><b><i>Escherichia coli</i> Antisera Set 1</b></p> <p>This set consists of 8 Polyvalents and 43 O (OK) sera.</p> <p><b>Polyvalent Serum</b></p> <p>Polyvalent 1: O1, O26, O86a, O111, O119, O127a and O128</p> <p>Polyvalent 2: O44, O55, O125, O126, O146 &amp; O166</p> <p>Polyvalent 3: O18, O114, O142, O151, O157 &amp; O158</p> <p>Polyvalent 4: O6, O27, O78, O148, O159 and O168</p> <p>Polyvalent 5: O20, O25, O63, O153 and O167</p> <p>Polyvalent 6: O8, O15, O115 and O169</p> <p>Polyvalent 7: O28ac, O112ac, O124, O136 and O144</p> <p>Polyvalent 8: O29, O143, O152, and O164</p> <p><b>Monovalent Sera</b></p> <p>All individual types constituting above polyvalent sera.</p>	2ml x 51
M12002	<p><b><i>Escherichia coli</i> Antisera Set 2</b></p> <p>This set consists of 22 H-sera.</p> <p>H-sera: 2, 4, 5, 6, 7, 9, 10, 11, 12, 16, 18, 19, 20, 21, 27, 28, 34, 40, 41, 42, 45 and 51</p>	5ml x 22

# Bacterial Agglutinating Antisera

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

### HAEMOPHILUS INFLUENZAE ANTISERA

AVAILABLE FROM STOCK

M11303	<i>H. influenzae</i> Type b	2ml
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### HAEMOPHILUS INFLUENZAE ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M11302	<i>H. influenzae</i> Type a	2ml
M11304	<i>H. influenzae</i> Type c	2ml
M11305	<i>H. influenzae</i> Type d	2ml
M11306	<i>H. influenzae</i> Type e	2ml
M11307	<i>H. influenzae</i> Type f	2ml

### SALMONELLA O ANTISERA - MONOVALENT

AVAILABLE FROM STOCK

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
M10314	<i>Salmonella</i> Poly O Factor O2, O4, O7, O8, O9, O9 46, O3 10 and O1, 3,19	2ml
M10326	<i>Salmonella</i> Factor Vi	2ml

### SALMONELLA O ANTISERA - POLYVALENT

AVAILABLE FROM STOCK

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, O35	2ml
M14294	POLY O A-G	2ml
M14300	POLY O A-S	2ml
M92537	Omnivalent (Kauffmann-White group A-067)	2ml

### SALMONELLA H ANTISERA - MONOVALENT

AVAILABLE FROM STOCK

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
M14335	<i>Salmonella</i> H Factor G	2ml
M10332	<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

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### **SALMONELLA H ANTISERA - POLYVALENT**

AVAILABLE FROM STOCK

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

### **SALMONELLA O ANTISERA - MONOVALENT**

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M10315	<i>Salmonella</i> O Factor	O9, 46	2ml
M10318	<i>Salmonella</i> O Factor	O1, 3, 19	2ml
M10319	<i>Salmonella</i> O Factor	O11	2ml
M10322	<i>Salmonella</i> O Factor	O16	2ml
M10323	<i>Salmonella</i> O Factor	O18	2ml
M10324	<i>Salmonella</i> O Factor	O21	2ml
M10325	<i>Salmonella</i> O Factor	O35	2ml

### **SALMONELLA H ANTISERA - MONOVALENT**

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M10335	<i>Salmonella</i> H Factor	L	2ml
M10337	<i>Salmonella</i> H Factor	y	2ml
M10338	<i>Salmonella</i> H Factor	e,n	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
M10374	<i>Salmonella</i> H Factor	z32	2ml
M10376	<i>Salmonella</i> H Factor	x	2ml
M10377	<i>Salmonella</i> H Factor	a	2ml
M10378	<i>Salmonella</i> H Factor	z	2ml
M10379	<i>Salmonella</i> H Factor	z4	2ml
M10380	<i>Salmonella</i> H Factor	z10	2ml
M10381	<i>Salmonella</i> H Factor	z29	2ml

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### SALMONELLA ANTISERA SETS

M10303	<b>Salmonella Antisera Set 1</b> This set comprises 2 x polyvalent , 15 x O-grouping and Vi sera Polyvalent O: O2, O4, O7, O8, O9, O9, 46, O3,10 & O1, 3, 19 Polyvalent O1: O11, O13, O6, O14, O16, O18, O21 and O35 Monovalent: O2, O4, O7, O8, O9, O9, 46, O3, 10, O1, 3, 19, O11, O13, O6, 14, O16, O18, 21 and O35 Vi serum	2ml × 18
M10304	<b>Salmonella Antisera Set 2</b> This set consists of 17 H antisera. a, b, c, d, e, h, G, i, k, L, r, y, e,n, l, z, z4, z10 and z29	5ml × 17
M10386	<b>Salmonella Antisera Set 3</b> This set consists of four H-L Monovalent sera v, w, z13 and z28	5ml × 4
M10387	<b>Salmonella Antisera Set 4</b> This set consists of five H-1 Monovalent sera 2, 5, 6, 7 and z6	5ml × 5
M10388	<b>Salmonella Antisera Set 5</b> This set consists of seven H-G Monovalent sera f, m, p, q, s, t and u	5ml × 7
M10389	<b>Salmonella Antisera Set 6</b> This set consists of three H-z4 and two H-e,n Monovalent sera. z23, z24, z32, x and z15	5ml × 5
M10390	<b>Salmonella Antisera Set 7</b> This set consists of the following. O-grouping sera: O2 and O9 H-sera: a and d Vi serum	2ml × 2 5ml × 2 2ml × 1

### SHIGELLA ANTISERA - MONOVALENT

AVAILABLE FROM STOCK

M10116	<i>Shigella dysenteriae</i>	Type 1	2ml
M10126	<i>Shigella flexneri</i>	Type I	2ml
M10127	<i>Shigella flexneri</i>	Type II	2ml
M10130	<i>Shigella flexneri</i>	Type V	2ml
M10131	<i>Shigella flexneri</i>	Type VI	2ml
M10136	<i>Shigella boydii</i>	Type 2	2ml
M10150	<i>Shigella sonnei</i>	Phase I	2ml
M10151	<i>Shigella sonnei</i>	Phase II	2ml

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### SHIGELLA ANTISERA - POLYVALENT

AVAILABLE FROM STOCK

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

### SHIGELLA ANTISERA - MONOVALENT

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M10117	<i>Shigella dysenteriae</i>	Type 2	2ml
M10118	<i>Shigella dysenteriae</i>	Type 3	2ml
M10119	<i>Shigella dysenteriae</i>	Type 4	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
M10128	<i>Shigella flexneri</i>	Type III	2ml
M10129	<i>Shigella flexneri</i>	Type IV	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
M10135	<i>Shigella boydii</i>	Type 1	2ml
M10137	<i>Shigella boydii</i>	Type 3	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

# Bacterial Agglutinating Antisera

Order No

Product

Packsize

## MAST<sup>®</sup> ASSURE

### SHIGELLA ANTISERA SETS

M10104	<b>Shigella Antisera Set 1</b> This set consists of 8 Polyvalent and 41 Monovalents. Polyvalent serum Polyvalent A: <i>S. dysenteriae</i> Type 1, 2, 3, 4, 5, 6 & 7 Polyvalent A1: <i>S. dysenteriae</i> Type 8, 9, 10, 11 & 12 Polyvalent B; <i>S. flexneri</i> Type I, II, III, IV, V, VI & Group (3) 4, 6 and 7 (8) Polyvalent C: <i>S. boydii</i> Type 1, 2, 3, 4, 5, 6 and 7 Polyvalent C1: <i>S. boydii</i> Type 8, 9, 10 and 11 Polyvalent C2: <i>S. boydii</i> Type 12, 13, 14 and 15 Polyvalent C3: <i>S. boydii</i> Type 16, 17 and 18 Polyvalent D: <i>S. sonnei</i> Phase I and Phase II <b>Monovalent serum</b> All individual types and groups constituting above polyvalent sera.	2ml × 49
M10105	<b>Shigella Antisera Set 2</b> This set consists of 8 Polyvalents and 11 Monovalents. <b>Polyvalent serum</b> Polyvalent A: <i>S. dysenteriae</i> Type 1, 2, 3, 4, 5, 6 & 7 Polyvalent A1: <i>S. dysenteriae</i> Type 8, 9, 10, 11 & 12 Polyvalent B; <i>S. flexneri</i> Type I, II, III, IV, V, VI and Group (3) 4, 6 and 7 (8) Polyvalent C: <i>S. boydii</i> Type 1, 2, 3, 4, 5, 6 and 7 Polyvalent C1: <i>S. boydii</i> Type 8, 9, 10 and 11 Polyvalent C2: <i>S. boydii</i> Type 12, 13, 14 and 15 Polyvalent C3: <i>S. boydii</i> Type 16, 17 and 18 Polyvalent D: <i>S. sonnei</i> Phase I and Phase II <b>Monovalent serum</b> <i>S. flexneri</i> : type I, II, III, IV, V, VI and Group: (3) 4, 6 and 7 (8). <i>S. sonnei</i> : Phase I and Phase II.	2ml × 19
M10106	<b>Shigella Antisera Set 3</b> This set consists of 8 Polyvalents. Polyvalent A: <i>S. dysenteriae</i> Type 1, 2, 3, 4, 5, 6 & 7 Polyvalent A1: <i>S. dysenteriae</i> Type 8, 9, 10, 11 & 12 Polyvalent B; <i>S. flexneri</i> Type I, II, III, IV, V, VI and Group (3) 4, 6 and 7 (8) Polyvalent C: <i>S. boydii</i> Type 1, 2, 3, 4, 5, 6 and 7 Polyvalent C1: <i>S. boydii</i> Type 8, 9, 10 and 11 Polyvalent C2: <i>S. boydii</i> Type 12, 13, 14 and 15 Polyvalent C3: <i>S. boydii</i> Type 16, 17 and 18 Polyvalent D: <i>S. sonnei</i> Phase I and Phase II	2ml × 8

### VIBRIO ANTISERA

AVAILABLE FROM STOCK

M15001	V.cholerae 0139 "Bengal"	2ml
M11003	V.cholerae Inaba	2ml
M11004	V.cholerae Ogawa	2ml
M11002	V.cholerae Polyvalent (Inaba,Ogawa)	2ml

### VIBRIO CHOLERAЕ ANTISERA SET

M11001	<b>Vibrio cholerae Antisera Set</b> This set consists of: Polyvalent antiserum: Serovar Inaba and Ogawa Monovalent antisera: Serovar Inaba, Serovar Ogawa.	2ml × 3
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# Bacterial Agglutinating Antisera

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## MAST<sup>®</sup> ASSURE

### CAMPYLOBACTER ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

M13002	<i>Campylobacter</i> Group A	2ml
M13003	<i>Campylobacter</i> Group B	2ml
M13004	<i>Campylobacter</i> Group C	2ml
M13005	<i>Campylobacter</i> Group D	2ml
M13006	<i>Campylobacter</i> Group E	2ml
M13007	<i>Campylobacter</i> Group F	2ml
M13008	<i>Campylobacter</i> Group G	2ml
M13009	<i>Campylobacter</i> Group I	2ml
M13010	<i>Campylobacter</i> Group J	2ml
M13011	<i>Campylobacter</i> Group K	2ml
M13012	<i>Campylobacter</i> Group L	2ml
M13013	<i>Campylobacter</i> Group N	2ml
M13014	<i>Campylobacter</i> Group O	2ml
M13015	<i>Campylobacter</i> Group P	2ml
M13016	<i>Campylobacter</i> Group R	2ml
M13017	<i>Campylobacter</i> Group S	2ml
M13018	<i>Campylobacter</i> Group U	2ml
M13019	<i>Campylobacter</i> Group V	2ml
M13020	<i>Campylobacter</i> Group Y	2ml
M13021	<i>Campylobacter</i> Group Z	2ml
M13022	<i>Campylobacter</i> Group Z2	2ml
M13023	<i>Campylobacter</i> Group Z4	2ml
M13024	<i>Campylobacter</i> Group Z5	2ml
M13025	<i>Campylobacter</i> Group Z6	2ml
M13026	<i>Campylobacter</i> Group Z7	2ml
M13027	Reference antiserum	2ml

### CAMPYLOBACTER ANTISERA SET

M13001	<b>Campylobacter Antisera Set</b> Reagents for the serotyping of <i>Campylobacter</i> by a passive haemagglutination (PHA) method. This set consists of: 2ml each of antisera (groups A, B, C, D, E, F, G, I, J, K, L, N, O, P, R, S, U, V, Y, Z, Z2, Z4, Z5, Z6 and Z7) 2ml × 1 vial of reference antiserum for red blood cells.	26 × 2ml
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### LEGIONELLA O-GROUPING SERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

	<b>Legionella O-Group listed below</b>	
M11702	<i>L. pneumophila</i> Group 1	2ml
M11703	<i>L. pneumophila</i> Group 2	2ml
M11704	<i>L. pneumophila</i> Group 3	2ml
M11705	<i>L. pneumophila</i> Group 4	2ml
M11706	<i>L. pneumophila</i> Group 5	2ml
M11707	<i>L. pneumophila</i> Group 6	2ml
M15727/NCE	<i>L. pneumophila</i> Group 7	2ml
M15734/NCE	<i>L. pneumophila</i> Group 8	2ml
M93572/NCE	<i>L. pneumophila</i> Group 9	2ml
M93626/NCE	<i>L. pneumophila</i> Group 11	2ml
M93633/NCE	<i>L. pneumophila</i> Group 12	2ml
M93649/NCE	<i>L. pneumophila</i> Group 13	2ml
M93657/NCE	<i>L. pneumophila</i> Group 14	2ml
M93664/NCE	<i>L. pneumophila</i> Group 15	2ml
M11708	<i>L. bozemanii</i>	2ml
M11709	<i>L. dumoffi</i>	2ml
M11710	<i>L. gormanii</i>	2ml
M11711	<i>L. micdadei</i>	2ml

Catalogue Effective January 2019 v1.0

# Bacterial Agglutinating Antisera

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## MAST<sup>®</sup> ASSURE

### LISTERIA ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

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

### LISTERIA ANTISERA SET

M14362	<b>Listeria Antisera Set</b>	
	This set consists of 8 O antisera and 4 H antisera.	
	O antisera: O I/II, O I, O IV, O V/VI, O VI, O VII, O VIII and O IX	2ml × 8 vials
	H antisera: H-A, H-AB, H-C and H-D	5ml × 4 vials

### PSEUDOMONAS ANTISERA

AVAILABLE TO SPECIAL ORDER 8 WEEKS DELIVERY

M10704/NCE	<i>Pseudomonas aeruginosa</i> Polyvalent contains: A, C, H, I, and L	2mL
M10705/NCE	<i>Pseudomonas aeruginosa</i> Polyvalent contains: B, J, K and M	2mL
M10706/NCE	<i>Pseudomonas aeruginosa</i> Polyvalent contains: D, E, F, G, and N	2mL
M10707/NCE	<i>Pseudomonas aeruginosa</i> Group A	2mL
M10712/NCE	<i>Pseudomonas aeruginosa</i> Group B	2mL
M10708/NCE	<i>Pseudomonas aeruginosa</i> Group C	2mL
M10716/NCE	<i>Pseudomonas aeruginosa</i> Group D	2mL
M10717/NCE	<i>Pseudomonas aeruginosa</i> Group E	2mL
M10718/NCE	<i>Pseudomonas aeruginosa</i> Group F	2mL
M10719/NCE	<i>Pseudomonas aeruginosa</i> Group G	2mL
M10709/NCE	<i>Pseudomonas aeruginosa</i> Group H	2mL
M10710/NCE	<i>Pseudomonas aeruginosa</i> Group I	2mL
M10713/NCE	<i>Pseudomonas aeruginosa</i> Group J	2mL
M10714/NCE	<i>Pseudomonas aeruginosa</i> Group K	2mL
M10711/NCE	<i>Pseudomonas aeruginosa</i> Group L	2mL
M10715/NCE	<i>Pseudomonas aeruginosa</i> Group M	2mL
M10720/NCE	<i>Pseudomonas aeruginosa</i> Group N	2mL

### STAPHYLOCOCCAL COAGULASE TYPING ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

	<b>Staphylococcal coagulase type listed below</b>	
M10802	Staphylococcal Coagulase Antisera Type I	5mL
M10803	Staphylococcal Coagulase Antisera Type II	5mL
M10804	Staphylococcal Coagulase Antisera Type III	5mL
M10805	Staphylococcal Coagulase Antisera Type IV	5mL
M10806	Staphylococcal Coagulase Antisera Type V	5mL
M10807	Staphylococcal Coagulase Antisera Type VI	5mL
M10808	Staphylococcal Coagulase Antisera Type VII	5mL
M10809	Staphylococcal Coagulase Antisera Type VIII	5mL

# Bacterial Agglutinating Antisera

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## MAST<sup>®</sup> ASSURE

### STAPHYLOCOCCAL COAGULASE TYPING ANTISERA SET

M10801	<b>Staphylococcal Coagulase Typing Sera Set</b> This set consists of 8 typing sera. Types: I, II, III, IV, V, VI, VII, and VIII	5ml x 8
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### HAEMOLYTIC STREPTOCOCCUS GROUP-B TYPING ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

	<b>Haemolytic Streptococcus Group-B Typing Sera type listed below</b>	
M10540	Group B Streptococcus Ia	2ml
M10541	Group B Streptococcus Ib	2ml
M10542	Group B Streptococcus II	2ml
M10543	Group B Streptococcus III	2ml
M10544	Group B Streptococcus IV	2ml
M10545	Group B Streptococcus V	2ml
M93350	Group B Streptococcus VI (NT6)	2ml
M93374	Group B Streptococcus VII (7271)	2ml
M93367	Group B Streptococcus VIII (JM9)	2ml

### HAEMOLYTIC STREPTOCOCCUS GROUP-B TYPING ANTISERA SET

M10570	<b>Haemolytic Streptococcus Group-B Typing Sera Set</b> This set consists of Antisera types: Ia, Ib, II, III, IV and V	2ml x 6
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### STREPTOCOCCUS PNEUMONIAE TYPING ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

	<b>Streptococcus pneumoniae POLYVALENT typing Antisera</b>	
M15253	<i>Streptococcus pneumoniae</i> Polyvalent 1 contains 1, 2, 3, 4 and 5	2ml
M15260	<i>Streptococcus pneumoniae</i> Polyvalent 2 contains 6, 8, 9, and 10	2ml
M15277	<i>Streptococcus pneumoniae</i> Polyvalent 3 contains 11, 12, 14, 15 and 16	2ml
M15284	<i>Streptococcus pneumoniae</i> Polyvalent 4 contains 17, 18, 21, and 22	2ml
M15291	<i>Streptococcus pneumoniae</i> Polyvalent 5 contains 20, 29, 31, 33, 34, 35 and 47	2ml
M15307	<i>Streptococcus pneumoniae</i> Polyvalent 6 contains 23, 25, 28, 41 and 46	2ml
M15314	<i>Streptococcus pneumoniae</i> Polyvalent 7 contains 27, 32, 36, 38 and 39	2ml
M15321	<i>Streptococcus pneumoniae</i> Polyvalent 8 contains 7, 19, 24 and 40	2ml

# Bacterial Agglutinating Antisera

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**MAST**<sup>®</sup> ASSURE

## STREPTOCOCCUS PNEUMONIAE TYPING ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

### *Streptococcus pneumoniae* MONOVALENT typing Antisera

M15338	<i>Streptococcus pneumoniae</i> type 1	2ml
M15345	<i>Streptococcus pneumoniae</i> type 2	2ml
M15352	<i>Streptococcus pneumoniae</i> type 3	2ml
M15369	<i>Streptococcus pneumoniae</i> type 4	2ml
M15376	<i>Streptococcus pneumoniae</i> type 5	2ml
M15383	<i>Streptococcus pneumoniae</i> type 6	2ml
M15390	<i>Streptococcus pneumoniae</i> type 7	2ml
M15406	<i>Streptococcus pneumoniae</i> type 8	2ml
M15413	<i>Streptococcus pneumoniae</i> type 9	2ml
M15420	<i>Streptococcus pneumoniae</i> type 10	2ml
M15437	<i>Streptococcus pneumoniae</i> type 11	2ml
M15444	<i>Streptococcus pneumoniae</i> type 12	2ml
M15451	<i>Streptococcus pneumoniae</i> type 14	2ml
M15468	<i>Streptococcus pneumoniae</i> type 15	2ml
M15475	<i>Streptococcus pneumoniae</i> type 16	2ml
M15482	<i>Streptococcus pneumoniae</i> type 17	2ml
M15499	<i>Streptococcus pneumoniae</i> type 18	2ml
M15505	<i>Streptococcus pneumoniae</i> type 19	2ml
M15512	<i>Streptococcus pneumoniae</i> type 20	2ml
M15529	<i>Streptococcus pneumoniae</i> type 21	2ml
M15536	<i>Streptococcus pneumoniae</i> type 22	2ml
M15543	<i>Streptococcus pneumoniae</i> type 23	2ml
M15550	<i>Streptococcus pneumoniae</i> type 24	2ml
M15567	<i>Streptococcus pneumoniae</i> type 25	2ml
M15574	<i>Streptococcus pneumoniae</i> type 26	2ml
M15581	<i>Streptococcus pneumoniae</i> type 28	2ml
M15598	<i>Streptococcus pneumoniae</i> type 29	2ml
M15604	<i>Streptococcus pneumoniae</i> type 31	2ml
M15611	<i>Streptococcus pneumoniae</i> type 32	2ml
M15628	<i>Streptococcus pneumoniae</i> type 33	2ml
M15635	<i>Streptococcus pneumoniae</i> type 34	2ml
M15642	<i>Streptococcus pneumoniae</i> type 35	2ml
M15659	<i>Streptococcus pneumoniae</i> type 36	2ml
M15666	<i>Streptococcus pneumoniae</i> type 38	2ml
M15673	<i>Streptococcus pneumoniae</i> type 39	2ml
M15680	<i>Streptococcus pneumoniae</i> type 40	2ml
M15697	<i>Streptococcus pneumoniae</i> type 41	2ml
M15703	<i>Streptococcus pneumoniae</i> type 46	2ml
M15710	<i>Streptococcus pneumoniae</i> type 47	2ml

## STREPTOCOCCUS PNEUMONIAE TYPING ANTISERA

M00747	<b>Streptococcus pneumoniae Antisera typing set</b> This kit consists of 8 polyvalent and 39 monovalent antisera	2ml × 47
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# Bacterial Agglutinating Antisera

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**MAST<sup>®</sup> ASSURE**

## VIBRIO PARAHAEMOLYTICUS ANTISERA

AVAILABLE TO SPECIAL ORDER 8 WEEKS DELIVERY

M10405/NCE	<i>V. parahaemolyticus</i> polyvalent K I contains : 1, 3, 4, 5, 6, 7, and 8	2mL
M10406/NCE	<i>V. parahaemolyticus</i> polyvalent K II contains: 9, 10, 11, 12, 13, 15 and 17	2mL
M10407/NCE	<i>V. parahaemolyticus</i> polyvalent K III contains: 18, 19, 20, 21, 22, 23 and 24	2mL
M10408/NCE	<i>V. parahaemolyticus</i> polyvalent K IV contains: 25, 26, 28, 29, 30, 31 and 32	2mL
M10409/NCE	<i>V. parahaemolyticus</i> polyvalent K V contains 33, 34, 36, 37, 38, 39 and 40	2mL
M10410/NCE	<i>V. parahaemolyticus</i> polyvalent K VI contains 41, 42, 42, 44, 45, 46 and 47	2mL
M10411/NCE	<i>V. parahaemolyticus</i> polyvalent K VII contains 48, 49, 50, 51, 52, 53 and 54	2mL
M10412/NCE	<i>V. parahaemolyticus</i> polyvalent K VIII contains 55, 56, 57, 58, 59, 60 and 61	2mL
M10482/NCE	<i>V. parahaemolyticus</i> polyvalent K IX contains 63, 64, 65, 66, 67, 68 and 69	2mL
M10413/NCE	<i>V. parahaemolyticus</i> K 1	2mL
M10414/NCE	<i>V. parahaemolyticus</i> K 3	2mL
M10415/NCE	<i>V. parahaemolyticus</i> K 4	2mL
M10416/NCE	<i>V. parahaemolyticus</i> K 5	2mL
M10417/NCE	<i>V. parahaemolyticus</i> K 6	2mL
M10418/NCE	<i>V. parahaemolyticus</i> K 7	2mL
M10419/NCE	<i>V. parahaemolyticus</i> K 8	2mL
M10420/NCE	<i>V. parahaemolyticus</i> K 9	2mL
M10421/NCE	<i>V. parahaemolyticus</i> K 10	2mL
M10422/NCE	<i>V. parahaemolyticus</i> K 11	2mL
M10423/NCE	<i>V. parahaemolyticus</i> K 12	2mL
M10424/NCE	<i>V. parahaemolyticus</i> K 13	2mL
M10425/NCE	<i>V. parahaemolyticus</i> K 15	2mL
M10426/NCE	<i>V. parahaemolyticus</i> K 17	2mL
M10427/NCE	<i>V. parahaemolyticus</i> K 18	2mL
M10428/NCE	<i>V. parahaemolyticus</i> K 19	2mL
M10429/NCE	<i>V. parahaemolyticus</i> K 20	2mL
M10430/NCE	<i>V. parahaemolyticus</i> K 21	2mL
M10431/NCE	<i>V. parahaemolyticus</i> K 22	2mL
M10432/NCE	<i>V. parahaemolyticus</i> K 23	2mL
M10433/NCE	<i>V. parahaemolyticus</i> K 24	2mL
M10434/NCE	<i>V. parahaemolyticus</i> K 25	2mL
M10435/NCE	<i>V. parahaemolyticus</i> K 26	2mL
M10436/NCE	<i>V. parahaemolyticus</i> K 28	2mL
M10437/NCE	<i>V. parahaemolyticus</i> K 29	2mL
M10438/NCE	<i>V. parahaemolyticus</i> K 30	2mL
M10439/NCE	<i>V. parahaemolyticus</i> K 31	2mL
M10440/NCE	<i>V. parahaemolyticus</i> K 32	2mL
M10448/NCE	<i>V. parahaemolyticus</i> K 41	2mL
M10449/NCE	<i>V. parahaemolyticus</i> K 42	2mL
M10450/NCE	<i>V. parahaemolyticus</i> K 43	2mL
M10451/NCE	<i>V. parahaemolyticus</i> K 44	2mL
M10452/NCE	<i>V. parahaemolyticus</i> K 45	2mL
M10453/NCE	<i>V. parahaemolyticus</i> K 46	2mL
M10454/NCE	<i>V. parahaemolyticus</i> K 47	2mL
M10455/NCE	<i>V. parahaemolyticus</i> K 48	2mL
M10456/NCE	<i>V. parahaemolyticus</i> K 49	2mL
M10457/NCE	<i>V. parahaemolyticus</i> K 50	2mL
M10458/NCE	<i>V. parahaemolyticus</i> K 51	2mL
M10459/NCE	<i>V. parahaemolyticus</i> K 52	2mL
M10460/NCE	<i>V. parahaemolyticus</i> K 53	2mL
M10461/NCE	<i>V. parahaemolyticus</i> K 54	2mL
M10462/NCE	<i>V. parahaemolyticus</i> K 55	2mL
M10463/NCE	<i>V. parahaemolyticus</i> K 56	2mL
M10464/NCE	<i>V. parahaemolyticus</i> K 57	2mL
M10465/NCE	<i>V. parahaemolyticus</i> K 58	2mL
M10466/NCE	<i>V. parahaemolyticus</i> K 59	2mL
M10467/NCE	<i>V. parahaemolyticus</i> K 60	2mL
M10479/NCE	<i>V. parahaemolyticus</i> K 61	2mL
M10480/NCE	<i>V. parahaemolyticus</i> K 63	2mL
M10488/NCE	<i>V. parahaemolyticus</i> K 66	2mL

# Bacterial Agglutinating Antisera

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## MAST<sup>®</sup> ASSURE

### VIBRIO PARAHAEMOLYTICUS ANTISERA (Continued)

AVAILABLE TO SPECIAL ORDER 8 WEEKS DELIVERY

M10489/NCE	<i>V. parahaemolyticus</i> K 67	2mL
M10490/NCE	<i>V. parahaemolyticus</i> K 68	2mL
M10496/NCE	<i>V. parahaemolyticus</i> K 71	2mL
M10468/NCE	<i>V. parahaemolyticus</i> O 1	2mL
M10469/NCE	<i>V. parahaemolyticus</i> O 2	2mL
M10470/NCE	<i>V. parahaemolyticus</i> O 3	2mL
M10471/NCE	<i>V. parahaemolyticus</i> O 4	2mL
M10472/NCE	<i>V. parahaemolyticus</i> O 5	2mL

### YERSINIA ENTEROCOLITICA O-GROUPING ANTISERA

AVAILABLE TO SPECIAL ORDER - 8 WEEKS DELIVERY

#### Yersinia enterocolitica type listed below

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

### YERSINIA ENTEROCOLITICA O-GROUPING ANTISERA SET

M11101	<b>Yersinia enterocolitica O-Grouping Antisera Set</b> This set consists of 1 Polyvalent and 4 Monovalent O sera. Polyvalent: Group O1, O2 Mixture Monovalent: O3, O5, O8 and O9	2ml x 5
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# Veterinary Tests

Order No	Product	Packsize
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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

## MAST VETERINARY PATHOGEN IDENTIFICATION PRODUCTS

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

### SPECIALIST VETERINARY SUSCEPTIBILITY DISCS

#### Antibiotic & Strength µg per disc (unless otherwise stated)

CEQ30C/NCE	Cefquinome 30	5 × 50 discs
GAM15C/NCE	Gamithromycin 15	5 × 50 discs
PRA5C/NCE	Pradofloxacin 5	5 × 50 discs
MAR5C/NCE	Marbofloxacin 5	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
FUNGART	Stock Antifungal Cartridge Discs of a single type	1 pack
SPECIALCART	Cartridge Discs made to special order*	Min 18 packs
VOLCART	Cartridge Discs made to special order*	Min 98 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
VOLDISC	Discs made to special order*	Min 97 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
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### 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	

MASTRING20	*Letter coded rings require an initial order of 20 tins. and are subject to a set up charge.	20 tins and over
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TOOL/M	*Set up charge for MASTRING SPECIAL: a one off charge for customisation of each new letter coded ring	per new Specification
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**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

## MAST ISOPLEX®

### NUCLEIC ACID DETECTION PRODUCTS

Available from stock

DNA/LYO1	MAST ISOPLEX® DNA Lyo kit		100 tests
DNA/LYO2	MAST ISOPLEX® DNA Lyo Plus		100 tests

### INDIVIDUAL KITS FOR THE DETECTION OF VT1, VT2 AND E.COLI O157

Available from stock

DNA/LYO3	MAST ISOPLEX® VTEC		20 tests
DNA/LYO4	MAST ISOPLEX® E.coli O157		20 tests

## MASTAFLUOR® IMMUNOFLUORESCENCE TESTS

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

630522	FTA-ABS-IgG 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
631181	<i>Toxoplasma</i> Screen	10 × 5 tests
631182	<i>Toxoplasma</i> Screen	10 × 10 tests
631183	<i>Toxoplasma</i> -IgG-complete test kit	10 × 5 tests
641181	<i>Toxoplasma</i> slides	10 × 5 wells
641182	<i>Toxoplasma</i> slides	10 × 10 wells
621181	<i>Toxoplasma</i> 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
626297M	PBS- buffer ( supplied as a powder- reconstitute in 1 litre H2O)	1 bag
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	MAST® SORB	2 ml

# Mast Immunodiagnostic Tests | Infectious Disease

Order No

Product

Packsize

## MASTAZYME® ENZYME IMMUNOASSAYS

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

Complete assays for the detection and confirmation of antibodies

680101	<i>Aspergillus fumigatus</i> IgG	12 × 8 tests
680102	<i>Aspergillus fumigatus</i> IgM	12 × 8 tests
680151	<i>Bordetella pertussis</i> IgG	12 × 8 tests
680152	<i>Bordetella pertussis</i> IgM	12 × 8 tests
680153	<i>Bordetella pertussis</i> IgA	12 × 8 tests
680201	<i>Borrelia burgdorferi</i> IgG	12 × 8 tests
680202	<i>Borrelia burgdorferi</i> IgM	12 × 8 tests
680251	<i>Brucella abortus</i> IgG	12 × 8 tests
680252	<i>Brucella abortus</i> IgM	12 × 8 tests
680301	<i>Candida albicans</i> IgG	12 × 8 tests
680302	<i>Candida albicans</i> IgM	12 × 8 tests
680303	<i>Candida albicans</i> 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	<i>Mycobacterium tuberculosis</i> IgG	12 × 8 tests
680852	<i>Mycobacterium tuberculosis</i> IgM	12 × 8 tests
680853	<i>Mycobacterium tuberculosis</i> IgA	12 × 8 tests
680901	<i>Mycoplasma pneumoniae</i> IgG	12 × 8 tests
680902	<i>Mycoplasma pneumoniae</i> IgM	12 × 8 tests
680903	<i>Mycoplasma pneumoniae</i> 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	<i>Yersinia enterocolitica</i> IgG	12 × 8 tests
681252	<i>Yersinia enterocolitica</i> IgM	12 × 8 tests
681253	<i>Yersinia enterocolitica</i> 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 | Infectious Disease

Order No

Product

Packsize

## MASTABLOT® LINEBLOT ASSAYS

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

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

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

## MASTABLOT® WESTERN BLOT ASSAYS

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

Antibody detection for *Borrelia burgdorferi*

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

## HAEMAGGLUTINATION TESTS

HA101	MAST® TPHA. A liquid stable <i>Treponema pallidum</i> haemagglutination assay for the serodiagnosis of syphilis.	200 tests
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# Mast Immunodiagnostic Tests | Autoimmune

Order No

Product

Packsize

## MASTAFLUOR® IMMUNOFLUORESCENCE TESTS

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

### COMPLETE TEST KITS

contains slides, controls, conjugate, mounting medium and buffer

	<b>HEp-2-Cells</b>	
	Tissue Sections	
606023	ANA/AMA/ASMA/APCA/LKM	10 × 10 tests
606080	ASA/Rabbit Tongue	10 × 5 tests
606064	SKMA	10 × 5 tests
	<b>TISSUE SECTIONS</b>	
	<b>Single Tissues</b>	
	<b>Rabbit Tissue Sections</b>	
616180	Rabbit Tongue	10 × 5 wells
	Rat Tissue Sections	
616175	Rat Striated Muscle	10 × 5 wells
	<b>Combined Tissue Sections</b>	
	<b>Rat Tissue</b>	
616123	Rat Liver/-Kidney/-Stomach	10 × 10 wells

## 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
626297M	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	MAST® SORB	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
<b>Special prices are available for bulk purchase</b>		

# 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.mastgrp.com](http://www.mastgrp.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 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.mastgrp.com](http://www.mastgrp.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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