

IVD solutions through partnership



**MASTDISCS<sup>®</sup>**

## Leading the field with a complete solution for AST and Identification disc testing

- Comprehensive range
- Premium quality products
- Compatible with EUCAST and CLSI standards
- Bespoke service available




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. With an ever-expanding portfolio of antibiotic susceptibility, combination and identification discs, Mast Group Ltd. supplies the most comprehensive range available worldwide. Mast Group Ltd. also offers a range of services including **mastpharma**<sup>®</sup> development and **mastpharma**<sup>®</sup> stability for the evaluation of novel antimicrobial compounds for the pharmaceutical industry.

Disc diffusion is still the most popular method for determining bacterial antibiotic susceptibility in the treatment of infectious disease, as highlighted by the variety of international standardised procedures including The European Committee on Antimicrobial Susceptibility Testing (EUCAST) and The Clinical and Laboratory Standards Institute (CLSI).

**MASTDISCS**<sup>®</sup> are available as an extensive range of test discs presented in dispensing cartridges or vials, with quality assurance guaranteed in accordance to standardised test protocols as issued by the above national and international organisations.

## Disc Diffusion Susceptibility Testing

Order No	Product		Packsizes
<b>MASTDISCS<sup>®</sup> AST - ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES AND VIALS</b>			
<b>MASTDISCS<sup>®</sup> in Cartridges (5 × 50 discs per pack)</b>			
STOCKCART	Stock Susceptibility Cartridge Discs of a single type		1 pack
FUNGCART	Stock Antifungal Cartridge Discs of a single type		1 pack
SPECIALCART	Cartridge Discs made to special order*		Min 18 packs
<b>MASTDISCS<sup>®</sup> (99+/- 2 discs per vial)</b>			
STOCKDISC	Stock Susceptibility Discs of a single type		1 vial
FUNGDISC	Stock Antifungal Discs of a single type		1 pack
SPECIALDISC	Discs made to special order*		Min 22 packs
TOOL/C	*Set up charge for Special Discs in vials or cartridges A one off charge for customisation of each new specification		per new specification

# Disc Diffusion Susceptibility Testing

**MASTDISCS**<sup>®</sup>AST


## ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Cartridges 5 × 50 discs
	EUCAST	CLSI	
Amikacin 30	✓	✓	AK30C
Amoxicillin/clavulanic acid 2-1	✓	-	AUG3C
Amoxicillin/clavulanic acid 20-10	✓	✓	AUG30C
Ampicillin 2	✓	-	AP2C
Ampicillin 10	✓	✓	AP10C
Ampicillin/Sulbactam 10-10	✓	✓	SAM20C
Azithromycin 15	-	✓	ATH15C
Aztreonam 30	✓	✓	ATM30C
Bacitracin 10 units	-	-	BA10C
Carbenicillin 100	✓	-	PY100C
Cefaclor 30	✓	✓	CFC30C
Cefadroxil 30	✓	-	CDX30C
Cefalexin 30	✓	-	CFX30C
Cefalothin 30	-	✓	KF30C
Cefazolin 30	-	✓	CZ30C
Cefepime 30	✓	✓	CPM30C
Cefiderocol 30	✓	✓	FDC30C
Cefixime 5	✓	✓	CFM5C
Cefotaxime 5	✓	-	CTX5C
Cefotaxime 30	-	✓	CTX30C
Cefoxitin 30	✓	✓	FOX30C
Cefpodoxime 10	✓	✓	CPD10C
Ceftaroline 5	✓	-	GPT5C
Ceftaroline 30	-	✓	CPT30C
Ceftazidime 10	✓	-	CAZ10C
Ceftazidime 30	-	✓	CAZ30C
Ceftazidime/avibactam 10-4	✓	-	CZA14C
Ceftazidime/avibactam 30-20	-	✓	CZA50C
Ceftibuten 30	✓	✓	CFB30C
Ceftobiprole 5	✓	-	BPR5C
Ceftolozane/tazobactam 30-10	✓	✓	C/T40C
Ceftriaxone 30	✓	✓	CRO30C
Cefuroxime 30	✓	✓	CXM30C
Chloramphenicol 30	✓	✓	C30C
Ciprofloxacin 5	✓	✓	CIP5C
Clarithromycin 15	-	✓	CLA15C
Clindamycin 2	✓	✓	CD2C
Delafloxacin 5	-	✓	DLX5C
Doripenem 10	✓	✓	DOR10C
Doxycycline 30	-	✓	DXT30C
Eravacycline 20	✓	✓	ERV20C
Ertapenem 10	✓	✓	ETP10C
Erythromycin 15	✓	✓	E15C
Fosfomycin/Glucose-6-Phosphate 200	✓	✓	FOT200C
Fusidic Acid 10	✓	-	FC10C
Gentamicin 10	✓	✓	GM10C
Gentamicin 30	✓	-	GM30C
Gentamicin 120	-	✓	GM120C
Imipenem 10	✓	✓	IMI10C
Imipenem/relebactam 10-25	-	✓	IMR35C
Kanamycin 30	-	✓	K30C
Lefamulin 20	-	✓	LMU20C
Levofloxacin 5	✓	✓	LEV5C
Linezolid 10	✓	-	LZD10C
Linezolid 30	-	✓	LZD30C
Mecillinam 10	✓	✓	MEC10C
Meropenem 10	✓	✓	MEM10C
Meropenem/Vaborbactam 20-10	✓	✓	MEV30C

# Disc Diffusion Susceptibility Testing

**MAST**DISCS<sup>®</sup>AST

## ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

Description Antibiotic & Content µg per disc (unless otherwise stated)	STANDARD		Order Code Cartridges 5 × 50 discs
	EUCAST	CLSI	
Metronidazole 5	✓	-	MZ5C
Minocycline 30	-	✓	MN30C
Moxifloxacin 5	✓	✓	MF5C
Mupirocin 200	✓	-	MUP200C
Nalidixic Acid 30	✓	✓	NA30C
Neomycin 10	✓	-	NE10C
Netilmicin 10	✓	-	NET10C
Netilmicin 30	✓	-	NET30C
Nitrofurantoin 100	✓	-	NI100C
Nitrofurantoin 300	-	✓	NI300C
Nitroxoline 30	✓	-	NIB30C
Norfloxacin 10	✓	✓	NOR10C
Novobiocin 5	-	-	NO5C
Ofloxacin 5	✓	✓	OF5C
Oxacillin 1	✓	✓	OX1C
Pefloxacin 5	✓	-	PEF5C
Penicillin G 1 unit	✓	-	PG1C
Penicillin G 10 units	-	✓	PG10C
Piperacillin 30	✓	-	PRL30C
Piperacillin 100	-	✓	PRL100C
Piperacillin/tazobactam 30-6	✓	-	PTZ36C
Piperacillin/tazobactam 100-10	-	✓	PTZ110C
Rifampicin 5	✓	✓	RP5C
Streptomycin 10	-	✓	S10C
Streptomycin 300	✓	✓	S300C
Sulbactam/Durlobactam 10-10 	-	✓	SUD20C
Tedizolid 2	✓	✓	TZD2C
Teicoplanin 30	✓	✓	TEC30C
Temocillin 30	✓	-	TEM30C
Tetracycline 30	✓	✓	T30C
Ticarcillin 75	✓	✓	TC75C
Ticarcillin/clavulanic acid 75-10	✓	✓	TIM85C
Tigecycline 15	✓	✓	TGC15C
Tobramycin 10	✓	✓	TN10C
Trimethoprim 5	✓	✓	TM5C
Trimethoprim/sulfamethoxazole 1.25/23.75	✓	✓	TS25C
Vancomycin 5	✓	-	VA5C
Vancomycin 30	-	✓	VA30C
Blank discs	-	-	BD0680W/C/NCE

# Disc Diffusion Susceptibility Testing

**MASTDISCS<sup>®</sup>AST**

## NON CLINICAL ANTIBIOTIC SUSCEPTIBILITY DISCS IN CARTRIDGES - STOCK RANGE

<b>Description</b> <b>Antibiotic &amp; Content µg per disc</b> (unless otherwise stated)	<b>Order Code</b> <b>Cartridges</b> <b>5 × 50 discs</b>
Amoxicillin 25	A25C/NCE
Colistin Sulphate 10	CO10C/NCE
Colistin Sulphate 25	CO25C/NCE
Polymyxin B 300 units	PB300C/NCE

**MASTDISCS<sup>®</sup>AST**

## SPECIALIST VETERINARY SUSCEPTIBILITY DISCS - STOCK RANGE

<b>Description</b> <b>Antibiotic &amp; Content µg per disc</b> (unless otherwise stated)	<b>Order Code</b> <b>Cartridges</b> <b>5 × 50 discs</b>
Cefquinome 30	CEQ30C/NCE
Cafalexin/Kanamycin 15-30 <b>NEW</b>	CFX15/K30/NCE
Cefoperazone 30	CPZ30C/NCE
Enrofloxacin 5	ENF5C/NCE
Florfenicol 30	FFC30C/NCE
Gamithromycin 15	GAM15C/NCE
Marbofloxacin 5	MAR5/NCE
Pradofloxacin 5	PRA5/NCE
Tildipirosone 60	TIP60/NCE
Tylosin 30	TY30C/NCE

 For sale in the UK, IVDD self-certified annex III under UKCA marking.

# Disc Diffusion Susceptibility Testing

Order No      Product      Mechanism      Packsize (tests)


## MASTDISCS<sup>®</sup>AST

### ANTIBIOTIC SUSCEPTIBILITY DISCS IN VIALS - STOCK RANGE

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

## MASTDISCS<sup>®</sup>AST

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

Description Antibiotic & Content µg per disc (unless otherwise stated)	Order Code Cartridges 5 × 50 discs
Amphotericin B 20	AMB20C/NCE
Clotrimazole 10	CTM10C/NCE
Econazole 10	ECN10C/NCE
Fluconazole 10	FCN10C/NCE
Fluconazole 25	FCN25C/NCE
Flucytosine 1	FY1C/NCE
Ketoconazole 10	KCA10C/NCE
Miconazole 10	MCL10C/NCE
Nystatin 100	NY100C/NCE
Rezafungin 5 	RZ5C/NCE

# Disc Diffusion Susceptibility Testing

Order No	Product	Mechanism	Packsize (tests)
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## MASTDISCS<sup>®</sup> Combi

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

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

#### Additional carbapenemase screening and identification tests

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

### RAPID CARBAPENEMASE DETECTION

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

## MASTDISCS<sup>®</sup> AST

### PENICILLIN DISCS

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

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

### HIGH CONTENT AMINOGLYCOSIDE DISCS

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

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

GM500C		500 $\mu$ g	Min order
K1000C/NCE		1000 $\mu$ g	18 packs
K1000/NCE		1000 $\mu$ g	Min order 22 vials

Any code with a suffix of '/NCE' is not CE marked and for veterinary or research use only.

# Disc Diffusion Susceptibility Testing

Order No

Product

Packsize

## DISCMASTER DISPENSER

**Robust and reliable antimicrobial cartridge disc dispensers designed for use with MASTDISCS® Antimicrobial Susceptibility Test Cartridges.**

MDD65	MAST® DISCMASTER Dispenser - 6 place	1
MDD8	MAST® DISCMASTER Dispenser - 8 place	1
SILICA63	Silica Gel Capsule for MAST® DISCMASTER	4
SHD5	Single Cartridge Hand Dispenser	5
CANISTER65	Canister for MDD65 MAST® DISCMASTER Dispenser	1



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