



Mueller Hinton Agar / Broth
To determine antimicrobial susceptibility of microorganisms by disc diffusion method on **Mueller Hinton Agar** and by broth microdilution method in **Mueller Hinton Broth**. Recommended by CLSI (Clinical and Laboratory Standards Institute) a medium of choice for performing Antimicrobial Susceptibility Testing by Kirby-Bauer Method.



BROTH MICRODILUTION METHOD
is also available as Micropro®-MIC!

Criterion of an IDEAL Mueller Hinton Media as per CLSI

Features	Benefits
Each batch tested with reference cultures* from ATCC® as per CLSI for growth promotion and zone size with recommended antimicrobials.	Batch to Batch Reproducible Result. Confidence in Reporting of Results.
Superior Grade Raw Materials.	Low in Sulfonamide, Trimethoprim and Tetracycline Inhibitors. Expected Growth with Non-fastidious and Fastidious organisms.
High Quality Pure Grade Agar as gelling agent.	Facilitates smooth diffusion of Antimicrobial disc under test.
Controlled levels of Calcium and Magnesium.	Reliable Results with Aminoglycosides and Tetracycline.

* Reference organisms suggested as per CLSI - *E. coli* (25922), *P. aeruginosa* (27853), *S. aureus* (25923) & *E. faecalis* (29212)

Product Presentation

CAT. NO.	PRODUCT NAME	PACK SIZE
Dehydrated Culture Medium		
201130650100	Mueller Hinton Agar	100 g
201130650500	A medium for antimicrobial disk diffusion susceptibility testing of common and rapidly growing bacteria.	500 g
201130652500		2.5K
201130660500	Mueller Hinton Agar No. 2 Recommended for testing susceptibility of common and rapidly growing bacteria using antimicrobial discs by the Kirby-Bauer method. Manufactured to contain low levels of thymine, thymidine, calcium and magnesium.	500g
201130670500	Mueller Hinton Agar with 2% glucose and Methylene Blue A medium is recommended for testing performing Antifungal Disk Diffusion Susceptibility of yeasts.	500g
201130680100	Mueller Hinton Broth	100 g
201130680500	A medium for determining the antimicrobial susceptibility of bacteria by the tube dilution method.	500 g
Ready To Use Media		
203130830250	Mueller Hinton Agar	6 x 250 mL
203130830100	A medium for antimicrobial susceptibility testing of common, rapidly growing microorganisms by the Kirby-Bauer method.	1 x 100 mL
203130840010	Mueller Hinton Broth Medium used for Antimicrobial Susceptibility Testing	25 x 10 mL
203090070015	INSTAPREP Mueller Hinton Agar	20 x 15 mL
203090070030	A medium for antimicrobial susceptibility testing of common & rapidly growing microorganisms by disc diffusion method.	20 x 30 mL
		pouches
205130960100	Mueller Hinton Agar Plate	100 Plates
205130960020	Used for antimicrobial disc diffusion susceptibility testing of common, rapidly growing bacteria by Kirby-Bauer method.	20 Plates
205130970020	Mueller Hinton Agar Plate Used for antimicrobial disc diffusion susceptibility testing of common, rapidly growing bacteria by Kirby-Bauer method.	20 plates



**Every Batch of Mueller Hinton Media...
Conforms to International Standards!**



Plot No. S-124, S-125, S-126, Utility Plot No. VIII, Phase III-B, Verna Industrial Estate, Verna, Goa - 403 722, INDIA.
Regd. Office : Gitanjali, Tulip Block, Dr. Antonio Do Rego Bagh, Alto Santacruz, Bambolim Complex P.O., Goa - 403 202, INDIA.
Email: mex.queries@tulipgroup.com • Website: www.tulipgroup.com



Biogram®

Antimicrobial Susceptibility Discs



Product Range
72 antibiotics as per CLSI guidelines
109 antibiotics with customized concentration levels
Individual Disc Dispenser

Pack Size
5 Cartridges – Each cartridge contains 50 susceptibility discs
5 Vials – Each vial contains 100 susceptibility discs
Single Vial – contains 100 susceptibility discs



**Every disc dispensed...
...designed for reliable results !**

BIOGRAM®

List of Antimicrobial and Antifungal Discs

ANTIBACTERIAL DISC AS PER CLSI STANDARDS

ANTIMICROBIAL AGENT	SYM	DISC CONTENT
PENICILLINS		
Ampicillin	AMP	10 mcg
Carbenicillin	CB	100 mcg
Oxacillin	OX	1 mcg
Penicillin	P	10 units
Piperacillin	PI	100 mcg
Ticarcillin	TI	75 mcg

β-LACTAM COMBINATION AGENTS

Amoxycillin/Clavulanate	AMC	20/10 mcg
Ampicillin/Sulbactam	A/S	10/10 mcg
Piperacillin/Tazobactam	PTZ	100/10 mcg
Ticarcillin/Clavulanate	TCC	75/10 mcg

CEPHEMS

Cefaclor	CF	30 mcg
Cefazolin	CZ	30 mcg
Cefdinir	CDR	5 mcg
Cefepime	CPM	30 mcg
Cefixime	CFM	5 mcg
Cefotaxime(Cephotaxime)	CTX	30 mcg
Cefoxitin	CX	30 mcg
Cefoperazone	CPZ	75 mcg
Cefpodoxime	CPD	10 mcg
Cefprozil	CPR	30 mcg
Ceftriaxone	CTR	30 mcg
Ceftazidime	CAZ	30 mcg
Ceftizoxime	CZX	30 mcg
Cefuroxime	CXM	30 mcg
Cephalexin	CEP	30 mcg

MONOBACTAMS

Aztreonam	AT	30 mcg
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CARBAPENEMS

Doripenem	DOR	10 mcg
Ertapenem	ETP	10 mcg
Faropenem	FAR	5 mcg
Imipenem	IPM	10 mcg
Meropenem	MRP	10 mcg

GLYCOPEPTIDES

Teicoplanin	TEI	30 mcg
Vancomycin	VA	30 mcg

LIPOPEPTIDES

Colistin(Methane Sulphonate)	CL	10 mcg
Polymyxin B	PB	300 units

AMINOGLYCOSIDES

Amikacin	AK	30 mcg
Gentamicin	GEN	10 mcg
Gentamicin	HLG	120 mcg
Kanamycin	K	30 mcg
Netilmicin	NET	30 mcg
Streptomycin	S	10 mcg
Streptomycin	HLS	300 mcg
Tobramycin	TOB	10 mcg

MACROLIDES

Azithromycin	AZM	15 mcg
Clarithromycin	CLR	15 mcg
Erythromycin	E	15 mcg

TETRACYCLINES

Doxycycline	DOX	30 mcg
Minocycline	MI	30 mcg
Tetracycline	TE	30 mcg
Tigecycline	TGC	15 mcg

QUINOLONES AND FLUOROQUINOLONES

Ciprofloxacin	CIP	5 mcg
Gatifloxacin	GAT	5 mcg
Gemifloxacin	GEM	5 mcg
Levofloxacin	LE	5 mcg
Lomefloxacin	LOM	10 mcg
Moxifloxacin	MXF	5 mcg
Nalidixic Acid	NA	30 mcg
Ofloxacin	OF	5 mcg
Prulifloxacin (Ulifloxacin)	PRU	5 mcg
Sparfloxacin	SPX	5 mcg
Pefloxacin	PF	5 mcg

FOLATE PATHWAY ANTAGONISTS

Trimethoprim	TR	5 mcg
Trimethoprim/ Sulphamethoxazole	COT	1.25/ 23.75 mcg

PHENICOLS

Chloramphenicol	C	30 mcg
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ANSAMYSINS

Rifampin	RIF	5 mcg
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FOSFOMYCINS

Fosfomycin	FO	200 mcg
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NITROFURANS

Nitrofurantoin	NIT	300 mcg
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LINCOSAMIDES

Clindamycin	CD	2 mcg
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OXAZOLIDINONES

Linezolid	LZ	30 mcg
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AMINOCYCLITOLS

Spectinomycin	SPT	100 mcg
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ANTIFUNGAL DISC AS PER CLSI STANDARDS

ANTIFUNGAL AGENT	SYM	DISC CONTENT
Fluconazole	FLC	25 mcg
Voriconazole	VRC	1 mcg

ANTIBACTERIALDISC AS PER NON-CLSI STANDARDS

ANTIMICROBIAL AGENT	SYM	DISC CONTENT
PENICILLINS		
Ampicillin	AMP	2 mcg, 25mcg
Ampicillin/Cloxacillin	AX	10 mcg
Oxacillin	OX	5 mcg
Penicillin	P	2 units

β-LACTAM COMBINATION AGENTS

Amoxycillin/Clavulanate	AMC	50/10 mcg
Amoxyclav	AMC	10 mcg
Amoxycillin/Sulbactam	AMS	30/15 mcg
Amoxycillin	AMX	10 mcg, 25 mcg, 30 mcg
Cloxacillin	COX	1 mcg, 5 mcg, 10 mcg, 30 mcg

CEPHEMS

Cefepime	CPM	50 mcg
Cefepime/Tazobactam	CPT	80/10 mcg, 30/10 mcg
Ceftriaxone	CTR	10 mcg
Ceftriaxone/Sulbactam	CIS	30/15 mcg
Ceftriaxone/ Tazobactam	CIT	80/10 mcg, 30/10 mcg

Cefadroxil(Cephadroxil)	CFR	30 mcg
Cefalexin(Cephalexin)	CN	30 mcg
Cefixime/ Clavulanic acid	CMC	5/10 mcg
Cefoperazone/Sulbactam	CFS	75/30 mcg, 75/10 mcg, 50/50 mcg

Cefoperazone/Tazobactam	CST	75/10 mcg
Cefotaxime(Cephataxime)	CTX	10 mcg
Cefotaxime/Clavulanic acid	CEC	30/10mcg
Cefpirome	CFP	30 mcg
Cefpodoxime/Clavulanic acid	CCL	10/5 mcg
Ceftazidime/Clavulanic acid	CAC	30/10 mcg
Ceftazidime/Tazobactam	CAT	80/10 mcg, 30/10 mcg

MONOBACTAMS

Aztreonam	AT	50 mcg
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CARBAPENEMS

Imipenem/Cilastatin	IC	10/10 mcg
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GLYCOPEPTIDES

Vancomycin	VA	5 mcg, 10 mcg
Bacitracin	B	10 units, 8 units, 0.04 units

LIPOPEPTIDES

Colistin (Methane Sulphonate)	CL	25 mcg, 50 mcg
Polymyxin B	PB	50 units, 100 units

AMINOGLYCOSIDES

Amikacin	AK	10 mcg
Gentamicin	GEN	30 mcg, 50 mcg
Netilmicin	NET	10 mcg
Neomycin	N	30 mcg
Kanamycin	K	5 mcg
Streptomycin	S	25 mcg
Tobramycin	TOB	30 mcg

MACROLIDES

Azithromycin	AZM	30 mcg
Erythromycin	E	10 mcg, 5 mcg
Roxithromycin	RO	30 mcg
Spiramycin	SR	30 mcg, 100mcg
Tylosine	TL	15 mcg

TETRACYCLINES

Doxycycline	DOX	10 mcg
Tetracycline	TE	10 mcg
Oxytetracycline	O	30 mcg

QUINOLONES AND FLUOROQUINOLONES

Ciprofloxacin	CIP	1 mcg, 10 mcg, 30 mcg
Gatifloxacin	GAT	10 mcg, 30mcg
Lomefloxacin	LOM	15 mcg, 30mcg
Norfloxacin	NX	10 mcg
Ofloxacin	OF	2 mcg
Prulifloxacin (Ulifloxacin)	PRU	10 mcg

FOLATE PATHWAY ANTAGONISTS

Trimethoprim	TR	10 mcg, 25 mcg, 30 mcg
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PHENICOLS

Chloramphenicol	C	10 mcg, 50 mcg, 25 mcg
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ANSAMYSINS

Rifampin	RIF	2 mcg, 15 mcg, 30 mcg
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FOSFOMYCINS

Fosfomycin	FO	50 mcg
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NITROFURANS

Nitrofurantoin	NIT	200 mcg, 100 mcg
Furazolidone	FR	50 mcg

LINCOSAMIDES

Clindamycin	CD	10 mcg
Lincomycin	L	2 mcg, 10 mcg, 15 mcg

AMINOCOUMARIN ANTIBIOTIC

Novobiocin	NV	30 mcg, 5 mcg
Sterile Discs	SD	0

ANTIFUNGAL DISC AS PER NON-CLSI STANDARDS

ANTIFUNGAL AGENT	SYM	DISC CONTENT
Amphotericin-B	AP	100 units, 20 mcg, 50 mcg
Clotrimazole	CC	10 mcg
Fluconazole	FLC	10 mcg
Itraconazole	IT	10 mcg, 30 mcg
Ketoconazole	KT	10 mcg, 30 mcg, 50 mcg
Metronidazole	MTZ	5 mcg, 4 mcg
Nystatin	NS	100 units, 50 mcg

BACTERIOLOGICAL DIFFERENTIATION DISCS

DIFFERENTIATION DISCS	SYM	DISC CONTENT
Bile Esculin Disc (50 Discs)	-	-
Optochin	-	OP 5 mcg
Oxidase Disc (50 disc)	-	-

CARBOHYDRATE FERMENTATION DISCS

CARBOHYDRATE FERMENTATION DISCS	SYM	CARBOHYDRATE FERMENTATION DISCS	SYM
Adonitol	Ad	Mannitol	Mn
Arabinose	Ar	Mannose	Mo
Cellobiose	Ce	Melibiose	Mb
Dextrose	De	Raffinose	Rf
Dulcitol	Du	Rhamnose	Rh
Galactose	Ga	Salicin	Sa
Fructose	Fc	Sorbitol	Sb
Inositol	Is	Sucrose	Su
Inulin	In	Trehalose	Te
Lactose	La	Xylose	Xy
Maltose	Ma		

AMINO ACID DISCS

Lysine Hydrochloride
Arginine Hydrochloride
Ornithine Hydrochloride



BIOGRAM® Pack size: 5 Cartridges (Each cartridge contains 50 discs) & Vials (5 Vials = 5 x 100 discs in each Vial & 1 Vial = 1 x 100 discs in Vial). Discs in routine use should be stored at 2-8°C. Longer term storage should be at -20°C.



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