

Quantitative assay for determining the Minimum Inhibitory Concentration (M.I.C.)

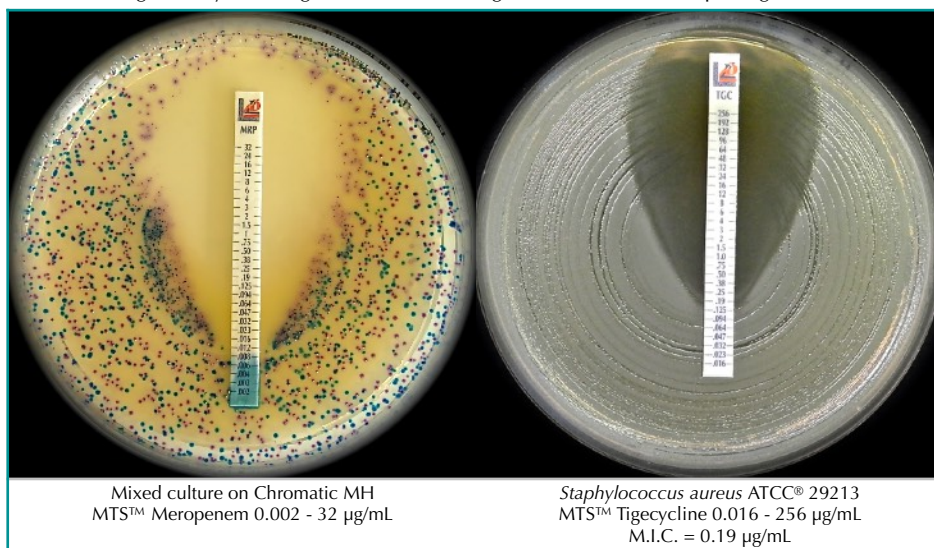
MTS™ is a quantitative assay for determining the Minimum Inhibitory Concentration (M.I.C.) of antimicrobial agents against microorganisms and for detecting the resistance mechanisms.

MTS™ are porous strips with special features (**International Patent**) that are impregnated with a predefined concentration gradient of antibiotic, across 15 two-fold dilutions of a conventional M.I.C. method.

On one side of the strip is indicated a M.I.C. scale in µg/mL and a code that identify the antimicrobial agent.

For ESBL, MBL, GRD, AmpC and KPC detection, the double-sided gradient carries the appropriate diagnostic reagents.

MTS™ are available in a large variety of configurations. Each configuration is available in packages of 10, 30 and 100 tests.

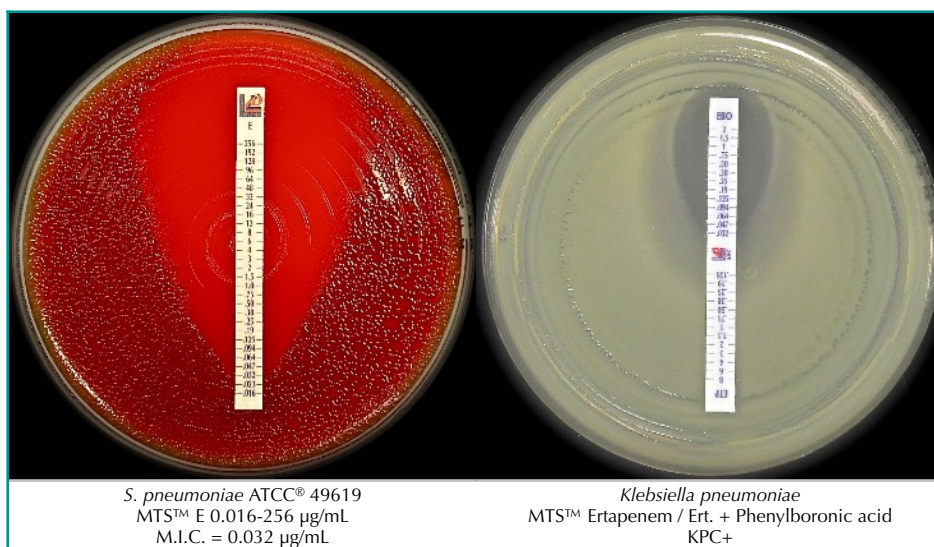


method principle

When the **MTS™** is applied onto an inoculated agar surface, the preformed exponential gradient of antimicrobial agent is transferred to the agar matrix.

After 18 hours incubation or longer, a symmetrical inhibition ellipse centered along the strip is formed. The MIC is read directly from the scale in terms of µg/mL at the point where the edge of the inhibition ellipse intersects the **MTS™**.

Other growth/inhibition patterns may also be seen for resistance detection methods.



BIBLIOGRAPHY

- CLSI M100-Ed30, 2020. Performance Standards for Antimicrobial Susceptibility Testing.
- CLSI M07-Ed11, 2018. Methods for Dilution Antimicrobial Susceptibility Tests for Bacteria That Grow Aerobically.
- CLSI M11-Ed9, 2018. Methods for Antimicrobial Susceptibility Testing of Anaerobic Bacteria.
- CLSI M60-Ed1, 2017. Performance Standards for Antimicrobial Susceptibility Testing of Yeasts.
- CLSI M27-Ed4, 2017. Reference Method for Broth Dilution Antifungal Susceptibility Testing of Yeasts.
- EUCAST. Breakpoint Tables for Interpretation of MICs and Zone Diameters. v. 10.0 (2020).

MTS™ for ANTIMICROBIAL susceptibility testing

Description		µg/mL	Code	Packaging	Ref.
MTS™	AMIKACIN	0.016 - 256	AK	10 strips 30 strips 100 strips	920181 92018 920180
MTS™	AMOXICILLIN	0.016 - 256	AML	10 strips 30 strips 100 strips	920211 92021 920210
MTS™	AMOXICILLIN*-CLAVULANIC ACID (2/1) <i>CLSI recommended</i>	0.016 - 256*	AUG	10 strips 30 strips 100 strips	920241 92024 920240
MTS™	AMOXICILLIN-CLAVULANIC ACID <i>EUCAST recommended</i>	0.016/2 - 256/2	AMC	10 strips 30 strips 100 strips	921801 92180 921800
MTS™	AMPICILLIN	0.016 - 256	AMP	10 strips 30 strips 100 strips	920031 92003 920030
MTS™	AMPICILLIN*-SULBACTAM (2/1) (FDA cleared) <i>CLSI recommended</i>	0.016 - 256*	AMS	10 strips 30 strips 100 strips	920271 92027 920270
MTS™	AMPICILLIN-SULBACTAM <i>EUCAST recommended</i>	0.016/4 - 256/4	SAM	10 strips 30 strips 100 strips	921811 92181 921810
MTS™	AZITHROMYCIN (FDA cleared)	0.016 - 256	AZM	10 strips 30 strips 100 strips	920301 92030 920300
MTS™	AZTREONAM	0.016 - 256	ATM	10 strips 30 strips 100 strips	920331 92033 920330
MTS™	AZTREONAM	0.064 - 1024	ATM	10 strips 30 strips 100 strips	921731 92173 921730
MTS™	BACITRACIN	0.016 - 256	BA	10 strips 30 strips 100 strips	920191 92019 920190
MTS™	CEFACTOR	0.016 - 256	CEC	10 strips 30 strips 100 strips	920361 92036 920360
MTS™	CEFAZOLIN	0.016 - 256	KZ	10 strips 30 strips 100 strips	921741 92174 921740
MTS™	CEFEPIME	0.002 - 32	FEP	10 strips 30 strips 100 strips	921271 92127 921270
MTS™	CEFEPIME	0.016 - 256	FEP	10 strips 30 strips 100 strips	921261 92126 921260
MTS™	CEFIXIME	0.016 - 256	CFM	10 strips 30 strips 100 strips	920601 92060 920600
MTS™	CEFOPERAZONE*-SULBACTAM (2/1)	0.016 - 256*	CPS	10 strips 30 strips 100 strips	920231 92023 920230
MTS™	CEFOTAXIME	0.002 - 32	CTX	10 strips 30 strips 100 strips	920071 92007 920070
MTS™	CEFOTAXIME	0.016 - 256	CTX	10 strips 30 strips 100 strips	920061 92006 920060
MTS™	CEFOTETAN	0.016 - 256	CTT	10 strips 30 strips 100 strips	920201 92020 920200
MTS™	CEFOXITIN	0.016 - 256	FOX	10 strips 30 strips 100 strips	920661 92066 920660
MTS™	CEFPIROME	0.016 - 256	CR	10 strips 30 strips 100 strips	920081 92008 920080
MTS™	CEFPODOXIME	0.016 - 256	PX	10 strips 30 strips 100 strips	920051 92005 920050
MTS™	CEFTAROLINE	0.002 - 32	CPT	10 strips 30 strips 100 strips	920561 92056 920560
MTS™	CEFTAROLINE	0.016 - 256	CPT	10 strips 30 strips 100 strips	920491 92049 920490
MTS™	CEFTAZIDIME (FDA cleared)	0.016 - 256	CAZ	10 strips 30 strips 100 strips	921381 92138 921380
MTS™	CEFTAZIDIME-AVIBACTAM (FDA cleared)	0.016/4 - 256/4	CZA	10 strips 30 strips 100 strips	921391 92139 921390
MTS™	CEFTIBUTEN	0.002 - 32	CTB	10 strips 30 strips 100 strips	920581 92058 920580
MTS™	CEFTIZOXIME	0.016 - 256	CZX	10 strips 30 strips 100 strips	920161 92016 920160
MTS™	CEFTOBIPROLE	0.002 - 32	BPR	10 strips 30 strips 100 strips	921401 92140 921400

MTS™ for ANTIMICROBIAL susceptibility testing

Description		µg/mL	Code	Packaging	Ref.
MTS™	CEFTOLOZANE-TAZOBACTAM (FDA cleared)	0.016/4 - 256/4	C/T	10 strips 30 strips 100 strips	921461 92146 921460
MTS™	CEFTRIAXONE	0.016 - 256	CRO	10 strips 30 strips 100 strips	920421 92042 920420
MTS™	CEFTRIAXONE	0.002 - 32	CRO	10 strips 30 strips 100 strips	920431 92043 920430
MTS™	CEFUROXIME	0.016 - 256	CXM	10 strips 30 strips 100 strips	921291 92129 921290
MTS™	CEPHALOTHIN	0.016 - 256	KF	10 strips 30 strips 100 strips	920391 92039 920390
MTS™	CHLORAMPHENICOL	0.016 - 256	C	10 strips 30 strips 100 strips	920751 92075 920750
MTS™	CIPROFLOXACIN (FDA cleared)	0.002 - 32	CIP	10 strips 30 strips 100 strips	920451 92045 920450
MTS™	CLARITHROMYCIN	0.016 - 256	CLR	10 strips 30 strips 100 strips	920481 92048 920480
MTS™	CLINDAMYCIN (FDA cleared)	0.016 - 256	CD	10 strips 30 strips 100 strips	920721 92072 920720
MTS™	CLOXACILLIN	0.016 - 256	CX	10 strips 30 strips 100 strips	920441 92044 920440
MTS™	COLISTIN	0.016 - 256	CS	10 strips 30 strips 100 strips	921411 92141 921410
MTS™	COLISTIN	0.064 - 1024	CS	10 strips 30 strips 100 strips	921421 92142 921420
MTS™	DALBAVANCIN (FDA cleared)	0.002 - 32	DAL	10 strips 30 strips 100 strips	921371 92137 921370
MTS™	DAPTOMYCIN (Includes Ca ²⁺)	0.016 - 256	DAP	10 strips 30 strips 100 strips	921451 92145 921450
MTS™	DELAFLORACIN (FDA cleared)	0.002 - 32	DLX	10 strips 30 strips 100 strips	920801 92080 920800
MTS™	DORIPENEM	0.002 - 32	DOR	10 strips 30 strips 100 strips	920401 92040 920400
MTS™	DOXYCYCLINE (FDA cleared)	0.016 - 256	DXT	10 strips 30 strips 100 strips	921561 92156 921560
MTS™	ENROFLOXACIN	0.002 - 32	ENR	10 strips 30 strips 100 strips	920131 92013 920130
MTS™	ERAVACYCLINE (FDA cleared)	0.002 - 32	ERV	10 strips 30 strips 100 strips	921041 92104 921040
MTS™	ERTAPENEM	0.002 - 32	ETP	10 strips 30 strips 100 strips	921571 92157 921570
MTS™	ERYTHROMYCIN (FDA cleared)	0.016 - 256	E	10 strips 30 strips 100 strips	920511 92051 920510
MTS™	FLORFENICOL	0.016 - 256	FFC	10 strips 30 strips 100 strips	920611 92061 920610
MTS™	FOSFOMYCIN (Includes Glucose-6-Phosphate)	0.016 - 256	FOS	10 strips 30 strips 100 strips	920781 92078 920780
MTS™	FOSFOMYCIN (Includes Glucose-6-Phosphate)	0.064 - 1024	FOS	10 strips 30 strips 100 strips	920791 92079 920790
MTS™	FOSMIDOMYCIN	0.016 - 256	FOM	10 strips 30 strips 100 strips	920501 92050 920500
MTS™	FUSIDIC ACID	0.016 - 256	FU	10 strips 30 strips 100 strips	920021 92002 920020
MTS™	GATIFLOXACIN	0.002 - 32	GAT	10 strips 30 strips 100 strips	920111 92011 920110
MTS™	GEMIFLOXACIN	0.002 - 32	GEM	10 strips 30 strips 100 strips	920351 92035 920350
MTS™	GENTAMICIN (FDA cleared)	0.016 - 256	CN	10 strips 30 strips 100 strips	920091 92009 920090
MTS™	GENTAMICIN	0.064 - 1024	CN	10 strips 30 strips 100 strips	920101 92010 920100

MTS™ for ANTIMICROBIAL susceptibility testing

Description		µg/mL	Code	Packaging	Ref.
MTS™	IMIPENEM	0.002 - 32	IMI	10 strips	920541
				30 strips	92054
				100 strips	920540
MTS™	IMIPENEM (FDA cleared)	0.016 - 256	IMI	10 strips	920681
				30 strips	92068
				100 strips	920680
MTS™	IMIPENEM-RELBACTAM (FDA cleared)	0.002/4 - 32/4	I/R	10 strips	920761
				30 strips	92076
				100 strips	920760
MTS™	KANAMYCIN	0.016 - 256	K	10 strips	920341
				30 strips	92034
				100 strips	920340
MTS™	LEFAMULIN (FDA cleared)	0.016 - 256	LMU	10 strips	920641
				30 strips	92064
				100 strips	920640
MTS™	LEVOFLOXACIN (FDA cleared)	0.002 - 32	LEV	10 strips	920811
				30 strips	92081
				100 strips	920810
MTS™	LINEZOLID (FDA cleared)	0.016 - 256	LNZ	10 strips	921351
				30 strips	92135
				100 strips	921350
MTS™	MARBOFLOXACIN	0.002 - 32	MAR	10 strips	920621
				30 strips	92062
				100 strips	920620
MTS™	MECILLINAM	0.016 - 256	MEC	10 strips	920171
				30 strips	92017
				100 strips	920170
MTS™	MEROPENEM (FDA cleared)	0.002 - 32	MRP	10 strips	920841
				30 strips	92084
				100 strips	920840
MTS™	MEROPENEM	0.016 - 256	MRP	10 strips	920851
				30 strips	92085
				100 strips	920850
MTS™	MEROPENEM-VABORBACTAM (FDA cleared)	0.016/8 - 256/8	M/V	10 strips	920741
				30 strips	92074
				100 strips	920740
MTS™	METRONIDAZOLE	0.016 - 256	MTZ	10 strips	920871
				30 strips	92087
				100 strips	920870
MTS™	MOXIFLOXACIN	0.002 - 32	MXF	10 strips	920901
				30 strips	92090
				100 strips	920900
MTS™	MUPIROCIN	0.064 - 1024	MUP	10 strips	920381
				30 strips	92038
				100 strips	920380
MTS™	MINOCYCLINE	0.016 - 256	MN	10 strips	920321
				30 strips	92032
				100 strips	920320
MTS™	NALIDIXIC ACID	0.016 - 256	NA	10 strips	921321
				30 strips	92132
				100 strips	921320
MTS™	NETILMICIN	0.016 - 256	NET	10 strips	920931
				30 strips	92093
				100 strips	920930
MTS™	NORFLOXACIN	0.016 - 256	NOR	10 strips	920961
				30 strips	92096
				100 strips	920960
MTS™	NITROFURANTOIN	0.032 - 512	F	10 strips	920221
				30 strips	92022
				100 strips	920220
MTS™	OFLOXACIN	0.002 - 32	OFX	10 strips	920991
				30 strips	92099
				100 strips	920990
MTS™	OMADACYCLINE (FDA cleared)	0.002 - 32	OMC	10 strips	920711
				30 strips	92071
				100 strips	920710
MTS™	OXACILLIN	0.016 - 256	OX	10 strips	920151
				30 strips	92015
				100 strips	920150
MTS™	PENICILLIN G (FDA cleared)	0.002 - 32	P	10 strips	921031
				30 strips	92103
				100 strips	921030
MTS™	PENICILLIN G	0.016 - 256	P	10 strips	921021
				30 strips	92102
				100 strips	921020
MTS™	PIPERACILLIN	0.016 - 256	PIP	10 strips	921051
				30 strips	92105
				100 strips	921050
MTS™	PIPERACILLIN-TAZOBACTAM	0.016/4 - 256/4	TZP	10 strips	921081
				30 strips	92108
				100 strips	921080
MTS™	PLAZOMICIN (FDA cleared)	0.016 - 256	PLZ	10 strips	920701
				30 strips	92070
				100 strips	920700
MTS™	POLYMYXIN B	0.064 - 1024	PB	10 strips	920041
				30 strips	92004
				100 strips	920040
MTS™	QUINUPRISTIN-DALFOPRISTIN	0.002 - 32	QDA	10 strips	920261
				30 strips	92026
				100 strips	920260

MTS™ for **ANTIMICROBIAL** susceptibility testing

Description	µg/mL	Code	Packaging	Ref.
MTS™ RIFAMPICIN	0.002 - 32	RD	10 strips 30 strips 100 strips	920011 92001 920010
MTS™ RIFAMPICIN	0.016 - 256	RD	10 strips 30 strips 100 strips	920251 92025 920250
MTS™ SPECTINOMYCIN	0.064 - 1024	SPC	10 strips 30 strips 100 strips	920141 92014 920140
MTS™ SPIRAMYCIN	0.002 - 32	SP	10 strips 30 strips 100 strips	920461 92046 920460
MTS™ STREPTOMYCIN	0.064 - 1024	S	10 strips 30 strips 100 strips	921111 92111 921110
MTS™ SULBACTAM	0.016 - 256	SUL	10 strips 30 strips 100 strips	920281 92028 920280
MTS™ SULFAMETHOXAZOLE	0.064 - 1024	SMX	10 strips 30 strips 100 strips	920311 92031 920310
MTS™ TEDIZOLID (FDA cleared)	0.002 - 32	TZD	10 strips 30 strips 100 strips	921361 92136 921360
MTS™ TEICOPLANIN	0.016 - 256	TEC	10 strips 30 strips 100 strips	920121 92012 920120
MTS™ TELAVANCIN	0.002 - 32	TLV	10 strips 30 strips 100 strips	920521 92052 920520
MTS™ TELAVANCIN (FDA cleared)	0.016 - 256	TLV	10 strips 30 strips 100 strips	920531 92053 920530
MTS™ TEMOCILLIN	0.064 - 1024	TMO	10 strips 30 strips 100 strips	920291 92029 920290
MTS™ TETRACYCLINE (FDA cleared)	0.016 - 256	TE	10 strips 30 strips 100 strips	921141 92114 921140
MTS™ TIAMULIN	0.002 - 32	TIA	10 strips 30 strips 100 strips	922001 92200 922000
MTS™ TICARCILLIN	0.016 - 256	TTC	10 strips 30 strips 100 strips	921831 92183 921830
MTS™ TICARCILLIN-CLAVULANIC ACID	0.016/2 - 256/2	TTC	10 strips 30 strips 100 strips	921171 92117 921170
MTS™ TIGECYCLINE	0.016 - 256	TGC	10 strips 30 strips 100 strips	921441 92144 921440
MTS™ TILMICOSIN	0.002 - 32	TIL	10 strips 30 strips 100 strips	922011 92201 922010
MTS™ TOBRAMYCIN	0.016 - 256	TOB	10 strips 30 strips 100 strips	921211 92121 921210
MTS™ TOBRAMYCIN	0.064 - 1024	TOB	10 strips 30 strips 100 strips	921201 92120 921200
MTS™ TRIMETHOPRIM	0.002 - 32	TM	10 strips 30 strips 100 strips	920371 92037 920370
MTS™ TRIMETHOPRIM*-SULFAMETHOXAZOLE (1/19)	0.002 - 32*	SXT	10 strips 30 strips 100 strips	921231 92123 921230
MTS™ VANCOMYCIN (FDA cleared)	0.016 - 256	VA	10 strips 30 strips 100 strips	920571 92057 920570

MTS™ **ESBL** for confirmation of Extended Spectrum Beta-Lactamase

Description	µg/mL	Code	Packaging	Ref.
MTS™ CEFEPIME/CEFEPIME+CLAVULANIC ACID (4 µg/mL)	0.25-16 / 0.064-4	FEP/FEL	10 strips 30 strips 100 strips	921611 92161 921610
MTS™ CEFOTAXIME/CEFOTAXIME+CLAVULANIC ACID (4 µg/mL)	0.25-16 / 0.016-1	CTX/CTL	10 strips 30 strips 100 strips	921601 92160 921600
MTS™ CEFTAZIDIME/CEFTAZIDIME+CLAVULANIC ACID (4 µg/mL)	0.5-32 / 0.064-4	CAZ/CAL	10 strips 30 strips 100 strips	921591 92159 921590

MTS™ **GRD** for detection of Glycopeptide Resistance

Description	µg/mL	Code	Packaging	Ref.
MTS™ VANCOMYCIN / TEICOPLANIN	0.5-32 / 0.5-32	VA/TEC	10 strips 30 strips 100 strips	921631 92163 921630

MTS™ for KPC detection

Description	µg/mL	Code	Packaging	Ref.
MTS™ MEROPENEM / MEROPENEM + PHENYLBORONIC ACID	0.125-8 / 0.032-2	MRP/MBO	10 strips 30 strips 100 strips	921671 92167 921670
MTS™ ERTAPENEM / ERTAPENEM + PHENYLBORONIC ACID	0.125-8 / 0.032-2	ETP/EBO	10 strips 30 strips 100 strips	921681 92168 921680

MTS™ for AmpC detection

Description	µg/mL	Code	Packaging	Ref.
MTS™ CEFOTETAN / CEFOTETAN+CLOXACILLIN	0.5-32 / 0.5-32	CTT/CXT	10 strips 30 strips 100 strips	921641 92164 921640
MTS™ ERTAPENEM / ERTAPENEM + CLOXACILLIN	0.125-8 / 0.032-2	ETP/ECX	10 strips 30 strips 100 strips	921691 92169 921690

MTS™ MBL for detection of Metallo Beta-Lactamase

Description	µg/mL	Code	Packaging	Ref.
MTS™ IMIPENEM / IMIPENEM + EDTA	4-256 / 1-64	IMI/IMD	10 strips 30 strips 100 strips	921621 92162 921620
MTS™ IMIPENEM / IMIPENEM + EDTA	0.125-8 / 0.032-2	IMI/IMD	10 strips 30 strips 100 strips	921661 92166 921660
MTS™ MEROPENEM / MEROPENEM + EDTA	0.125-8 / 0.032-2	MRP/MRD	10 strips 30 strips 100 strips	921651 92165 921650

MTS™ for ANTIFUNGAL susceptibility testing

Description	µg/mL	Code	Packaging	Ref.
MTS™ AMPHOTERICIN B	0.002 - 32	AMB	10 strips 30 strips 100 strips	921531 92153 921530
MTS™ ANIDULAFUNGIN	0.002 - 32	AND	10 strips 30 strips 100 strips	921551 92155 921550
MTS™ CASPOFUNGIN	0.002 - 32	CAS	10 strips 30 strips 100 strips	921541 92154 921540
MTS™ FLUCONAZOLE	0.016 - 256	FLU	10 strips 30 strips 100 strips	921471 92147 921470
MTS™ FLUCYTOSINE	0.002 - 32	FC	10 strips 30 strips 100 strips	921491 92149 921490
MTS™ ISAVUCONAZOLE	0.002 - 32	IVU	10 strips 30 strips 100 strips	921841 92184 921840
MTS™ ITRACONAZOLE	0.002 - 32	ITC	10 strips 30 strips 100 strips	921481 92148 921480
MTS™ KETOCONAZOLE	0.002 - 32	KE	10 strips 30 strips 100 strips	921511 92151 921510
MTS™ MICA FUNGIN	0.002 - 32	MYC	10 strips 30 strips 100 strips	921821 92182 921820
MTS™ POSACONAZOLE	0.002 - 32	POS	10 strips 30 strips 100 strips	921521 92152 921520
MTS™ VORICONAZOLE	0.002 - 32	VO	10 strips 30 strips 100 strips	921501 92150 921500

MTS™ for ANTIMYCOBACTERIAL susceptibility testing

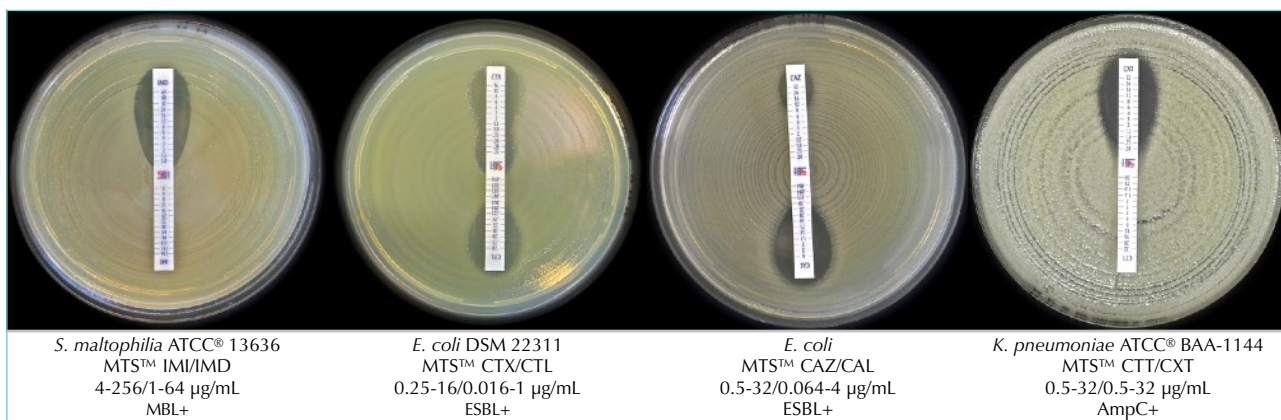
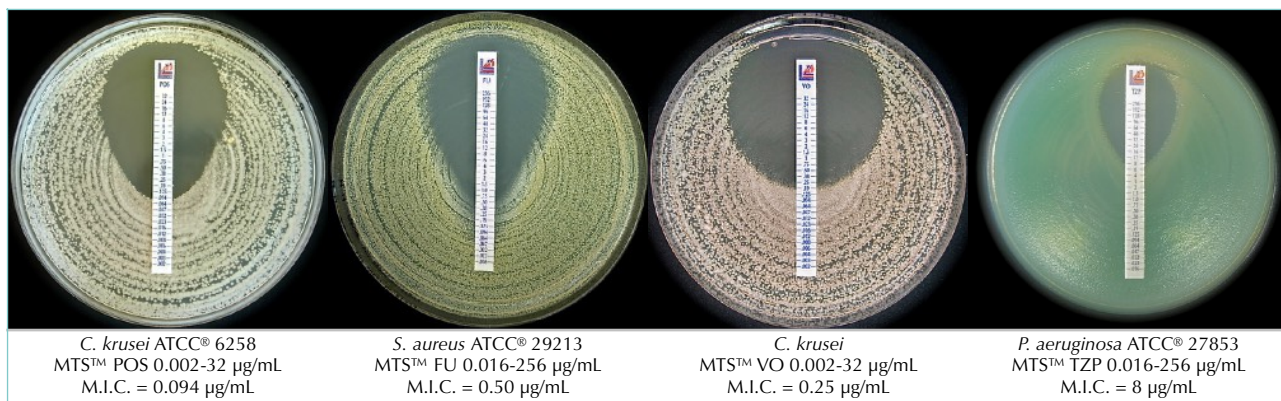
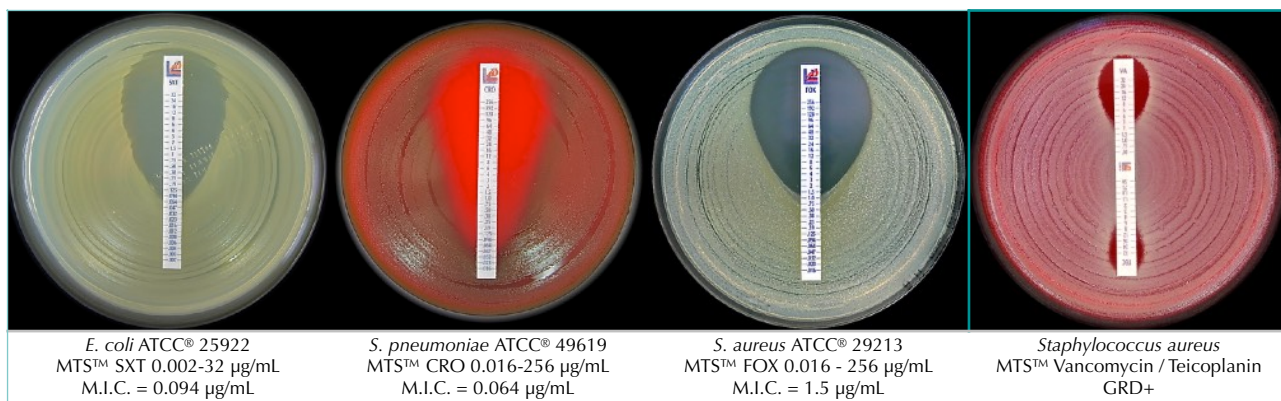
Description	µg/mL	Code	Packaging	Ref.
MTS™ ETHAMBUTOL	0.016 - 256	EB	10 strips 30 strips 100 strips	921701 92170 921700
MTS™ ETHIONAMIDE	0.016 - 256	ET	10 strips 30 strips 100 strips	921721 92172 921720
MTS™ ISONIAZIDE	0.016 - 256	IZ	10 strips 30 strips 100 strips	921711 92171 921710

MTS™ Synergy Application System (International Patent)

Description	Packaging	Ref.
MTS™ Synergy Applicator Platform	1 unit	96860
MTS™ Synergy Delivery Tool	10 disposable applicators	96870

Ready to use culture media

Description	Format	Packaging	Ref.
MUELLER HINTON AGAR II for antimicrobial susceptibility testing of non-fastidious organisms.	90 mm 140 mm	20 plates 10 plates	10031 10231
MUELLER HINTON AGAR II + SHEEP BLOOD 5% for antimicrobial susceptibility testing of fastidious organisms.	90 mm 140 mm	20 plates 10 plates	10131 11231
MUELLER HINTON FASTIDIOUS AGAR (Horse blood 5% + 20 mg/L β -NAD) EUCAST recommended: for antimicrobial susceptibility testing of <i>Streptococcus</i> spp., <i>Haemophilus</i> spp., and some other fastidious organisms.	90 mm 140 mm	20 plates 10 plates	10132 11132
MUELLER HINTON AGAR II + 2% NaCl for antimicrobial susceptibility testing of staphylococci with Oxacillin.	90 mm	20 plates	11206
CHROMATIC MH Chromogenic medium for the preliminary identification and susceptibility testing of bacteria directly from clinical and environmental specimens.	90 mm 140 mm	20 plates 10 plates	11618 10246
BRUCELLA BLOOD AGAR with HEMIN AND VITAMIN K1 for antimicrobial susceptibility testing of anaerobic bacteria.	90 mm	20 plates	10245
SCHADLER K AGAR (SHEEP BLOOD 5%) for antimicrobial susceptibility testing of anaerobic bacteria.	90 mm	20 plates	11065
HAEMOPHILUS TEST AGAR for <i>Haemophilus</i> spp. susceptibility testing.	90 mm	20 plates	10080
MIDDLEBROOK 7H11 AGAR for antimicrobial susceptibility testing of mycobacteria.	90 mm	20 plates	10416
R.P.M.I. AGAR (2% glucose + MOPS) for antifungal susceptibility testing.	90 mm 140 mm	20 plates 10 plates	11509 10233



Contact your local dealer or Liofilchem headquarter for MTS™ availability.

 Argentina MedicaTec S.R.L. Tel +54 11 4554.4600 Fax +54 11 4555.0416 www.medica-tec.com	 France i2a Tel +33467504800 Fax +33467170906 www.i2a.info	 New Zealand Point View Laboratories Ltd Tel +64 9 265 2884 Fax +64 9 265 0776 info@pointviewlaboratories.com	 Slovenia Mediline d.o.o. Tel +38618308040 Fax +38618308070 www.mediline.si
 Australia Integrated Sciences Tel.: +61 2 9417 7866 Fax: +61 2 9417 5066 tech@integratedsci.com.au	 Germany bestbion dx GmbH Tel +49 2234 987 95 0 Fax +49 2234 987 95 29 service@bestbion.com	 Norway Montebello Diagnostics AS Tel 22 14 14 90 Fax 22 14 44 90 www.montebello.no	 South Africa Davies Diagnostics (PTY) Ltd Tel +27117777600 Fax +27117876917 www.daviesdiagnostics.co.za
 Austria IVD Uhl-Michelin e.U. Tel.: +43 (0) 69914616219 Fax: +43 (0) 463 265526 6222 werner.uhl-michelin@ivd.at	 Greece Varelas S.A. Tel +302105281920 Fax +302105220926 microbiology@varelas.gr	 Paraguay GT Scientific S.A. Tel 595 21 200134 Fax 595 21 221339 ventas@gtscientific.com.py	 Spain Werfen España, SAU Tel 902203090 Fax 902223366 www.werfen.com
 Belgium ELITech Group B.V. Tel +32 (0)92820531 Fax +32 (0)92820532 c.notte@elitechgroup.com	 Hong Kong Bio-Gene Technology Ltd. Tel +85226466101 Fax +85226868806 info@bio-gene.com.hk	 Poland Argenta Spółka z ograniczoną odpowiedzialnością Sp.k. tel. +48 618474637 fax +48 618483477 argenta@argenta.com.pl	 Sweden Biotech-IgG www.biotech-igg.com orders@biotech-igg.com
 Brazil Plast Labor Tel (21) 25010888 (21) 25011905 (21) 3273 9105. (21) 2599 8419 plabor@plastlabor.com.br	 Hungary Frank Diagnosztika Kft. Tel 388-3114, 367-2430 Fax 368-5721 www.frank-diagn.hu	 Portugal Werfen Portugal, LDA Tel +351 214161288 Fax +351 214176484 MTS™ product range only	 Switzerland Apteq AG Tel: +41417400814 Fax: +41417403488 www.apteq.ch
 Bulgaria Elta 90M Tel +35929839649 Fax +35929832211 www.elta90.com	 Ireland Launch Diagnostics Ireland Tel +3530719151122 Fax +3530719152277 desruddy@launchdiagnostics.ie	 Qatar Micro Lab Medical Mob: +974 55050342 Fax: +974 40391713 sales@mlmqatar.com	 Thailand Envimed Co., Ltd. Tel 66-2-434-0391 Fax 66-2-435-5962 envimed@truemail.co.th
 Chile Medica Tec de Chile S.A. Tel +56 (02) 4261830 fax +56 (02) 4261835 mrojas@medica-tec.cl	 Italy Liofilchem Tel +39 0858930745 Fax +39 0858930330 www.liofilchem.com	 Russia Agros-International, Zao Tel +7 (812) 303-8234 Fax +7 (812) 303-8236 agros@agros-int.com	 Turkey Kemiteks Kimyevi Mad. Tic. Ltd. Sti. Tel +90 216 449 58 70 Fax +90 216 449 58 72 www.kemitekskimya.com.tr
 Czech Republic BioVendor Tel +420549124123 Fax +420549211465 www.biovendor.cz	 Lithuania Biometrija tel +37 052481824 fax +37 052400085 www.biometrija.lt	 Saudi Arabia Gamsco Tel +966-3-8394085 Fax +966-3-8394084 drmalousef@yahoo.com	 Ukraine Ukrbio Ltd. Tel +38 067 240 63 29 Fax +38 044 205 56 21 office.ukrbio@gmail.com
 Denmark Biotech-IgG www.biotech-igg.com orders@biotech-igg.com	 Malaysia Premier Diagnostics Sdn Bhd Tel +603-5191 3943 Fax +603-5191 3945 info-pd@premierdiagnostics.com.my	 Serbia Uni-Chem Tel +381113282986 Fax +381113281205 www.uni-chem.rs	 United Kingdom Launch Diagnostics Ltd Tel +44(0)1474874426 Fax +44(0)1474872388 enquiries@launchdiagnostics.com
 Estonia Borsa Eesti OÜ Tel +3725050555 Fax +3726556158 borsa@borsa.ee	 Mexico Abalat, S.A. de C.V. Tel (01 55) 8000-1500 www.abalat.com.mx	 Singapore Premier Diagnostics Pte Ltd Tel +65 6220 3221 Fax +65 6220 9457 pdsingapore8@gmail.com	 United States Liofilchem, Inc. Waltham, MA tel 781-902-0312 fax 781-902-0397 orders@lioilchem.us
 Finland Immuno Diagnostic Oy Tel +3583615370 Fax +35836822039 www.immunodiagnostic.fi	 Netherlands EWC Diagnostics B.V. Tel +31 (0)6 15606050 carin.smale@ewcdiagnostics.com www.ewcdiagnostics.com	 Slovakia Bio G spol. s r.o. Tel +421245526381 Fax +421245526382 www.biog.sk	 Vietnam Vietlab Co., Ltd. tel +84 2433113236 Fax : +844 33113239 info@vietlab.vn



Liofilchem®

Via Scozia zona ind.le, 64026 Roseto degli Abruzzi (Te) Italy
 Tel. +39 0858930745 Fax +39 0858930330 www.liofilchem.com



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