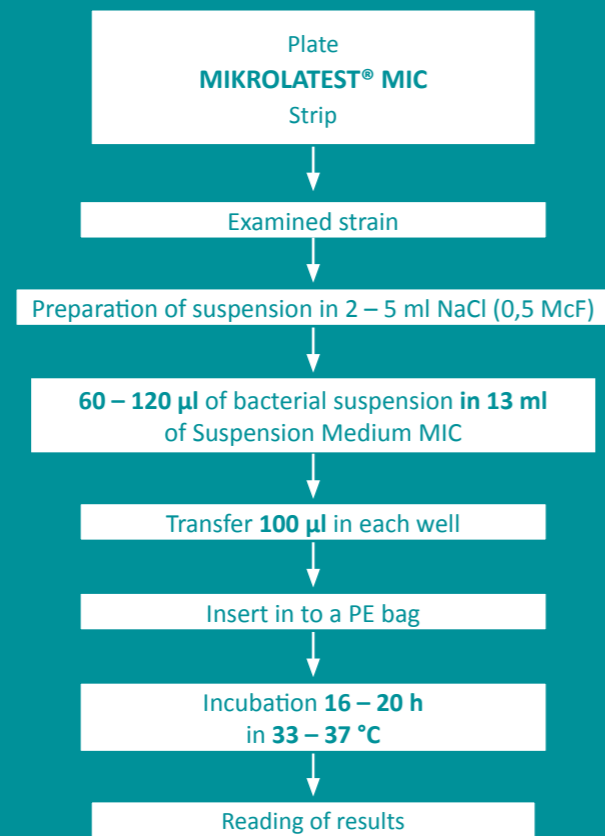


# MIKROLATEST® MIC

MIC system  
for precise antibiotic  
susceptibility testing



## Work procedure

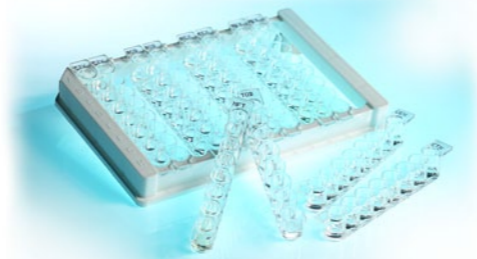


Kits	Cat. nr.	Nr. of tests	Target
MIC G-I	10020295	10	Enterobacteriaceae
MIC G-II	10020296	10	Enterobacteriaceae
MIC URINE	10020299	10	Bacteria isolated from urine and urinary tract
MIC NEFERM	10020297	10	Non-fermenting bacteria
MIC STAPHY	10020298	10	Staphylococci
MIC G+	10020300	10	Streptococci A,B,C, G, Streptococcus pneumoniae and enterococci

## Coming soon!

### Individual strips with antibiotics to create your own combination

You will have a possibility soon to combine your own MIC panel from individual antibiotic strips as per your need. 8 concentrations for each antibiotic.



**Erba Lachema s.r.o.**  
 Karásek 1d, 621 00 Brno, Czech Republic  
 Tel.: +420 517 077 111, fax: +420 517 077 077  
 E-mail: [diagnostics@erbalachema.com](mailto:diagnostics@erbalachema.com)  
[www.erbalachema.com](http://www.erbalachema.com)



Contact info / map

- Quantitative evaluation of susceptibility/ resistance to antibiotics
- Scale of 8 concentrations for each antibiotic
- Robust water-free format for easy transportation
- Extended shelflife
- Evaluation using CLSI or EUCAST criteria
- Visual or automated evaluation including sophisticated expert system

# MIKROLATEST® MIC

## Minimum inhibitory concentration system for antibiotic susceptibility testing MIKROLATEST® MIC

### Principle of the method:

This method allows quantitative determination of minimum inhibitory concentration of antibiotics in preselected panels.

Testing is based on broth microdilution method that measures quantitatively in vitro activity of an antimicrobial agent against a bacterial isolate. The minimal inhibitory concentration (MIC) is determined from twofold dilution series (8 concentrations) as the lowest concentration of an antimicrobial agent that prevents visible growth of a microorganism.

Determination of MIC enables interpretation into three categories: sensitive, intermediate or resistant according to the relevant interpretation system (EUCAST: [www.eucast.org](http://www.eucast.org) or CLSI: [www.clsi.org](http://www.clsi.org))

These categories are characterised as follows:

- Microorganism is defined as susceptible by a level of antimicrobial activity associated with a high probability of therapeutic success.
- Microorganism is defined as intermediate by a level of antimicrobial activity associated with uncertain therapeutic effect.
- Microorganism is defined as resistant by a level of antimicrobial activity associated with a high probability of therapeutic failure.

In each test system there is a growth control.

### MIC G-I

The kit is designed to test antimicrobial susceptibility of bacteria from *Enterobacteriaceae* family.

AMP	AMS	CFZ	CXM	AZT	GEN	AMK	COL	T/S	CIP	CMP	TET
ampicillin	ampicillin/ sulbactam	cefazolin	ecefuroxim	aztreonam	gentamicin	amikacin	colistin	trimethoprim/ sulfamethoxazole	ciprofloxacin	chloramphenicol	tetracycline
128	128/64	16	64	16	32	64	16	4/76	8	32	32
64	64/32	8	32	8	16	32	8	2/38	4	16	16
32	32/16	4	16	4	8	16	4	1/19	2	8	8
16	16/8	2	8	2	4	8	2	0.5/9.5	1	4	4
8	8/4	1	4	1	2	4	1	0.25/4.75	0.5	2	2
4	4/2	0.5	2	0.5	1	2	0.5	0.12/2.38	0.25	1	1
2	2/1	0.25	1	0.25	0.5	1	0.25	0.06/1.19	0.12	0.5	0.5
1	1/0.5	0.12	0.5	0.12	0.25	0.5	0.12	0.03/0.6	0.06	0.25	control

### MIC G-II

This kit is designed to test susceptibility to antibiotics used in treatment of serious infections caused by bacteria from *Enterobacteriaceae* family especially in hospitalized patients.

PIP	PIT	CTX	CAZ	CPZ	CPS	CEP	MER	ERT	TGC	NET	TOB
piperacillin	piperacillin/ tazobactam	cefotaxime	ceftazidime	cefoperazone	cefoperazone/ sulbactam	cefepime	meropenem	etapenem	tigecycline	netilmicin	tobramicin
128	128/4	8	16	64	64/32	16	16	2	8	16	8
64	64/4	4	8	32	32/16	8	8	1	4	8	4
32	32/4	2	4	16	16/8	4	4	0.5	2	4	2
16	16/4	1	2	8	8/4	2	2	0.25	1	2	1
8	8/4	0.5	1	4	4/2	1	1	0.12	0.5	1	0.5
4	4/4	0.25	0.5	2	2/1	0.5	0.5	0.06	0.25	0.5	0.25
2	2/4	0.12	0.25	1	1/0.5	0.25	0.25	0.03	0.12	0.25	0.12
1	1/4	0.06	0.12	0.5	0.5/0.25	0.12	0.12	0.015	0.06	0.12	control

### MIC URINE

The kit is designed to test antimicrobial susceptibility of bacteria isolated from urine and urinary tract (mainly *Enterobacteriaceae* family).

AMP	AMS	CFZ	CXM	MER	GEN	AMK	T/S	NOR	CIP	TGC	NFT
ampicillin	ampicillin/ sulbactam	cefazolin	ecefuroxim	meropenem	gentamicin	amikacin	trimethoprim/ sulfamethoxazole	norfloxacin	ciprofloxacin	tigecycline	nitrofurantoin
128	128/64	16	64	16	32	64	4/76	8	8	8	128
64	64/32	8	32	8	16	32	2/38	4	4	4	64
32	32/16	4	16	4	8	16	1/19	2	2	2	32
16	16/8	2	8	2	4	8	0.5/9.5	1	1	1	16
8	8/4	1	4	1	2	4	0.25/4.75	0.5	0.5	0.5	8
4	4/2	0.5	2	0.5	1	2	0.12/2.38	0.25	0.25	0.25	4
2	2/1	0.25	1	0.25	0.5	1	0.06/1.19	0.12	0.12	0.12	2
1	1/0.5	0.12	0.5	0.12	0.25	0.5	0.03/0.6	0.06	0.06	0.06	control

### MIC NEFERM

The kit is designed to test antimicrobial susceptibility of non-fermenting bacteria.

AMP	PIP	PIT	CAZ	AZT	MER	GEN	AMK	COL	CIP	TGC	T/S
ampicillin	piperacillin	piperacillin/ tazobactam	ceftazidime	aztreonam	meropenem	gentamicin	amikacin	colistin	ciprofloxacin	tigecycline	trimethoprim/ sulfamethoxazole
128/64	128	128/4	16	16	16	32	64	16	8	8	4/76
64/32	64	64/4	8	8	8	16	32	8	4	4	2/38
32/16	32	32/4	4	4	4	8	16	4	2	2	1/19
16/8	16	16/4	2	2	2	4	8	2	1	1	0.5/9.5
8/4	8	8/4	1	1	1	2	4	1	0.5	0.5	0.25/4.75
4/2	4	4/4	0.5	0.5	0.5	1	2	0.5	0.25	0.25	0.12/2.38
2/1	2	2/4	0.25	0.25	0.25	0.5	1	0.25	0.12	0.12	0.06/1.19
1/0.5	1	1/4	0.12	0.12	0.12	0.25	0.5	0.12	0.06	0.06	control

### MIC STAPHY

The kit is designed to test antimicrobial susceptibility of staphylococci.

PEN	COX	ERY	CLI	LIZ	CMP	TET	CIP	T/S	GEN	VAN	NFT
penicillin	cefoxitin	erythromycin	clindamycin	linezolid	chloramphenicol	tetracycline	ciprofloxacin	trimethoprim/ sulfamethoxazole	gentamicin	vancomycin	nitrofurantoin
4	16	8	4	16	32	8	8	4/76	16	16	128
2	8	4	2	8	16	4	4	2/38	8	8	64
1	4	2	1	4	8	2	2	1/19	4	4	32
0.5	2	1	0.5	2	4	1	1	0.5/9.5	2	2	16
0.25	1	0.5	0.25	1	2	0.5	0.5	0.25/4.75	1	1	8
0.12	0.5	0.25	0.12	0.5	1	0.25	0.25	0.12/2.38	0.5	0.5	4
0.06	0.25	0.12	0.06	0.25	0.5	0.12	0.12	0.06/1.19	0.25	0.25	2
0.03	0.12	0.06	0.03	0.12	0.25	0.06	0.06	0.03/0.6	0.12	0.12	control

### MIC G+

The kit is designed to test antimicrobial susceptibility of Gram-positive bacteria: streptococci A,B,C, G, Streptococcus pneumoniae and enterococci.

PEN	AMP	ERY	CLI	LIZ	CMP	TET	T/S	GEN	VAN	TEC	NFT
penicillin	ampicillin	erythromycin	clindamycin	linezolid	chloramphenicol	tetracycline	trimethoprim/ sulfamethoxazole	gentamicin	vancomycin	teicoplanin	nitrofurantoin
8	16	8	16	16	32	32	4/76	128	16	16	128
4	8	4	8	8	16	16	2/38	16	8	8	64
2	4	2	4	4	8	8	1/19	8	4	4	32
1	2	1	2	2	4	4	0.5/9.5	4	2	2	16
0.5	1	0.5	1	1	2	2	0.25/4.75	2	1	1	8
0.25	0.5	0.25	0.5	0.5	1	1	0.12/2.38	1	0.5	0.5	4
0.12	0.25	0.12	0.25	0.25	0.5	0.5	0.06/1.19	0.5	0.25	0.25	2
0.06	0.12	0.06	0.12	0.12	0.25	0.25	0.03/0.6	0.25	0.12	0.12	control