



Product webpage

MIKROLATEST® MIC

MIC system
for precise antibiotic
susceptibility testing



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
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.

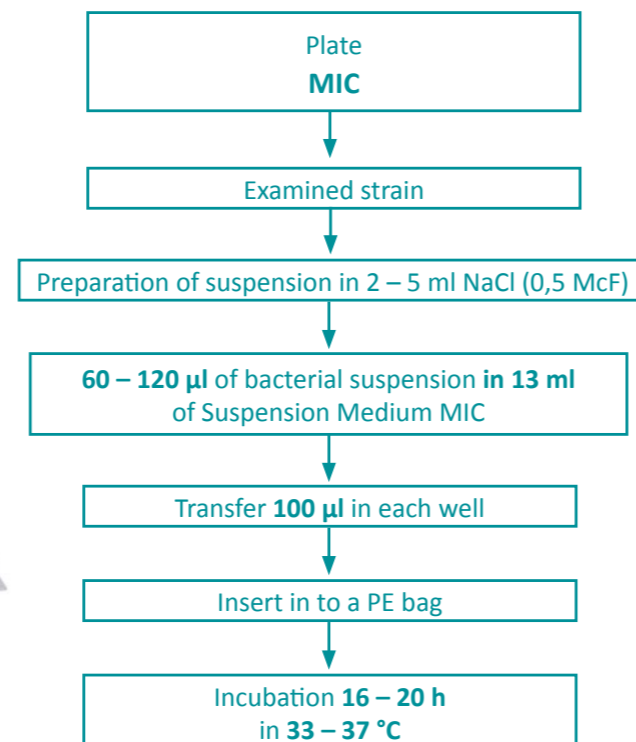
Testing is based on broth microdilution method that measures quantitatively in vitro activity of an antimicrobial agent against a bacterial isolate. The minimal inhibitory concentration (MIC) is determined from twofold dilution series (8 concentrations) as the lowest concentration of an antimicrobial 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 or CLSI: www.clsi.org)

These categories are characterised as follows:

- Microorganism is defined as susceptible by a level of antimicrobial activity associated with a high likelihood 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 likelihood of therapeutic failure.

In each test system there is a growth control.



Available panels:

G minus I (Enterobacteriaceae)	
ampicillin	128 – 1 mg/L
ampicillin-sulbactam	128/64 – 1/0,5 mg/L
cefazolin	16 – 0,12 mg/L
cefuroxime	64 – 0,5 mg/L
aztreonam	16 – 0,12 mg/L
gentamicin	32 – 0,25 mg/L
amikacin	64 – 0,5 mg/L
colistin	16 – 0,12 mg/L
trimethoprim/sulfamethoxazole	4/76 – 0,03/06 mg/L
ciprofloxacin	8 – 0,06 mg/L
chloramfenikol	32 – 0,25 mg/L
tetracycline	32 – 0,5 mg/L

G minus II (Enterobacteriaceae)	
piperacillin	128 – 1 mg/L
piperacillin-tazobactam	128/4 – 1/4 mg/L
cefotaxime	8 – 0,06 mg/L
ceftazidime	16 – 0,12 mg/L
cefoperazone	64 – 0,5 mg/L
cefoperazone/sulbactam	64/32 – 0,5/0,25 mg/L
cefepime	16 – 0,12 mg/L
meropenem	16 – 0,12 mg/L
ertapenem	2 – 0,015 mg/L
tigecyclin	8 – 0,06 mg/L
netilmicin	16 – 0,12 mg/L
tobramycin	8 – 0,12 mg/L

URINE	
ampicillin	128 – 1mg/L
ampicillin-sulbactam	128/64 – 1/0,5 mg/L
cefazolin	16 – 0,12 mg/L
cefuroxime	64 – 0,5 mg/L
meropenem	16 – 0,12 mg/L
gentamicin	32 – 0,25 mg/L
amikacin	64 – 0,5 mg/L
trimethoprim/sulfamethoxazole	4/76 – 0,03/0,6mg/L
norfloxacin	8 – 0,06 mg/L
ciprofloxacin	8 – 0,06 mg/L
tigecyclin	8 – 0,06 mg/L
nitrofurantoin	128 – 2 mg/L

NEFERM (non-fermenting Gram-negative bacteria)	
ampicillin-sulbactam	128/64 – 1/0,5 mg/L
piperacillin	128 – 1 mg/L
piperacillin-tazobactam	128/4 – 1/4 mg/L
ceftazidime	16 – 0,12 mg/L
aztreonam	16 – 0,12 mg/L
meropenem	16 – 0,12 mg/L
gentamicin	32 – 0,25 mg/L
amikacin	64 – 0,5 mg/L
colistin	16 – 0,12 mg/L
ciprofloxacin	8 – 0,06 mg/L
tigecyclin	8 – 0,06 mg/L
trimethoprim/sulfamethoxazole	4/76 – 0,06/1,19 mg/L

STAPHY (Staphylococcus sp.)	
penicilin	4 – 0,03 mg/l
cefoxitin	16 – 0,12 mg/L
erythromycin	8 – 0,06 mg/L
clindamycin	4 – 0,03 mg/L
linezolid	16 – 0,12 mg/L
chloramfenikol	32 – 0,25 mg/L
tetracycline	8 – 0,06 mg/L
ciprofloxacin	8 – 0,06 mg/L
trimethoprim/sulfamethoxazole	4/76 – 0,03/0,6
gentamicin	16 – 0,12 mg/L
vankomycin	16 – 0,12 mg/L
nitrofurantoin	128 – 2 mg/L

G plus (A, B, C, G Streptococcus sp. + Enterococcus sp.)	
penicilin	8 – 0,06 mg/L
ampicilin	16 – 0,12 mg/L
erytromycin	8 – 0,06 mg/L
klindamycin	16 – 0,12 mg/L
linezolid	16 – 0,12 mg/L
chloramfenikol	32 – 0,25 mg/L
tetracyklin	32 – 0,25 mg/L
trimethoprim/sulfamethoxazole	4/76 – 0,03/0,59 mg/L
gentamicin HC	128 mg/l, 16 – 0,25mg/L
vankomycin	16 – 0,12 mg/L
teikoplanin	16 – 0,12 mg/L
nitrofurantoin	128 – 2 mg/L

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. Be free, be flexible. Stay tuned.

