BACTEROMIC – UNLOCK THE WORLD OF ANTIBIOTICS

- Real MIC values for all antibiotics
- Capacity to identify synergies
- A milestone towards precision therapies

ONLY 3 STEPS TO TAKE YOUR AST to the next level by offering quantitative evaluations of all clinically relevant antibiotics in a single test.

STEP 1
transferring bacterial isolate into the panel,

STEP 2
automated partitioning of sample into microchambers,
up to 10 panels in paralel

STEP 3
automated analysis of up to 60 panels in paralel,
with random access, real-time reporting
and LIS connectivity

BACTEROMIC

INTRODUCING **BACTEROMIC**

ALL IN ONE
INNOVATIVE AST

BACTEROMIC

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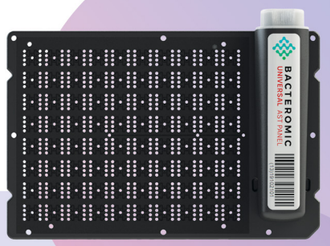
BACTEROMIC

ALL IN ONE INNOVATIVE AST

Filling device



Panel

Analyzer

FACTS

Every 15 minutes someone new dies of an antibiotic resistant infection*

- Antibiotics prevent millions of deaths each year and remain the primary treatment for potentially fatal bacterial infections.
- Yet inappropriate prescription rates and overuse of antibiotics have led to resistance that has created a global health emergency and kills at least **700,000** people a year.
- by 2050, **10** million worldwide deaths could result from antibiotic resistance, making it deadlier than cancer.

THE PROBLEM

50% of antibiotics used in hospitals are either unnecessary or are prescribed incorrectly**

- Today's healthcare professionals are challenged with balancing appropriate antibiotic prescribing with withholding of unnecessary antibiotic.
- Current AMR management can prolong hospital stays, inflate costs, and lead to non-effective treatment.
- Available testing methods are time-consuming and expensive.

SOLUTION

BACTEROMIC - ALL IN ONE INNOVATIVE AST

- Comprehensive testing:
  - Real MIC values for all clinically relevant antibiotics.
  - Capacity to identify synergistic combinations.
- Microfluidic-powered golden standard:
  - Microdilution assays.
  - Wide range of concentrations.
  - Compliance with EUCAST guidelines.
- Cost effective:
  - Minimizes manual work.
  - Eliminates delays in access to precision antibiotic therapies.

* https://www.who.int/news-room/fact-sheets/detail/antimicrobial-resistance
** https://www.mayoclinic.org/healthy-lifestyle/consumer-health/in-depth/antibiotics/art-20045720#:~:text=degree%20resistance%20occurs.-,Overuse%20of%20antibiotics,is%20not%20needed%20nor%20appropriate

BACTEROMIC PANEL UNI*

List of antibiotics on BACTEROMIC Panel UNI for antibiotic susceptibility testing.

ANTIBIOTIC	BACTERIA GROUP
Amikacin	*Enterobacterales, Pseudomonas, Acinetobacter*
Amoxicillin	*Enterobacterales, Enterococcus*
Amoxicillin-clavulanic acid	*Enterobacterales*
Ampicillin	*Enterobacterales, Enterococcus*
Azithromycin	*Staphylococcus*
Benzylpenicillin	*Staphylococcus*
Cefazolin	*Enterobacterales (only E. coli and Klebsiella spp. without K. aerogenes)*
Cefepime	*Enterobacterales, Pseudomonas*
Cefotaxime	*Enterobacterales*
Ceftazidime	*Enterobacterales, Pseudomonas, Acinetobacter*
Ceftazidime - Avibactam	*Enterobacterales, Pseudomonas*
Ceftriaxone	*Enterobacterales*
Cefuroxime	*Enterobacterales*
Ciprofloxacin	*Enterobacterales, Pseudomonas, Acinetobacter, Staphylococcus, Enterococcus*
Clarithromycin	Staphylococcus
Clindamycin	Enterococcus
Erythromycin	Staphylococcus
Gentamicin	Enterobacterales, Acinetobacter, Staphylococcus
Imipenem	Enterobacterales, Pseudomonas, Acinetobacter
Levofloxacin	Enterobacterales, Pseudomonas, Acinetobacter, Staphylococcus, Enterococcus
Linezolid	Enterococcus, Staphylococcus
Meropenem	Enterobacterales, Pseudomonas, Acinetobacter
Moxifloxacin	Enterobacterales (with exeption of Morganella spp., Proteus spp., Serratia spp.), Staphylococcus
Nitrofurantoin	Enterobacterales (E.coli only), Staphylococcus (S. saprophiticus only), Enterococcus (E. faecalis only)
Ofloxacin	Enterobacterales, Staphylococcus
Oxacillin	Staphylococcus
Vancomycin	Enterococcus
Tobramycin	Enterobacterales, Pseudomonas, Acinetobacter, Staphylococcus
Trimetoprim	Enterobacterales (only E.coli and Klebsiella spp. without K. aerogenes), Staphylococcus, Enterococcus (E. faecalis/ E. faecium only)
Trimetoprim/sulfamethoxazol	Enterobacterales, Acinetobacter, Staphylococcus, Enterococcus (E. faecalis/ E. faecium only), Stenotrophomonas maltophilia

*pre - IVDR

BACTEROMIC Panel UNI - List of resistance mechanism tests

Resistance mechanism	Microorganisms group
Extended spectrum β-lactamase: - Cefepime-clavulanic acid - Cefotaxime-clavulanic acid - Ceftazidime-clavulanic acid	Enterobacterales

BACTEROMIC is an ideal solution for:

- Hospitals
- Central labs
- Microbiology labs