



# **VITEK 2™ and Etest®**

A Winning Combination  
for Resistance Detection



# Microbial Resistance: A Complex Challenge

Microbial resistance to antibiotics is a steadily growing problem and a major cause for concern worldwide. Microbiologists are challenged with finding a solution capable of detecting this resistance and providing clinicians with accurate information to better guide antibiotic treatment.



**VITEK 2™**

## A Synergistic Approach to ID and Resistance I

bioMérieux has combined the expertise of two technologies, VITEK® 2 Technology and Etest®, to provide a complete solution for Automated Antibiotic Susceptibility Testing (AST).

VITEK® 2 Technology with VITEK® 2 Advanced Expert System™ is recognized as the **leader in automated ID/AST systems**. Based on broth microdilution, VITEK 2 functions as your **primary test system** providing same day identification and susceptibility test results for the **majority of organisms** encountered in the routine clinical laboratory: *Enterobacteriaceae*, Gram-negative non-fermenting bacilli, staphylococci, enterococci, Group B Streptococci, *S. pneumoniae* and yeast.

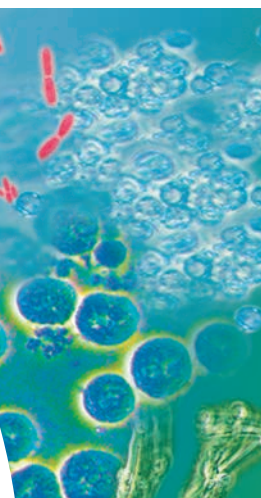
## Providing Clinical Value

bioMérieux is the only provider to offer you the complete, unique solution of VITEK 2 Technology, Advanced Expert System, and Etest to meet all your AST and resistance detection needs. The end goal being to help you optimize patient management and ensure the use of appropriate antimicrobial therapy. Together, the two methods provide:

- Rapid results for **faster decision-making**
- Selection of the **optimal antibiotic and dosing regimen** by combining knowledge of pharmacokinetic/pharmacodynamic (PK/PD) parameters with MIC results, especially in critically ill or immunocompromised patients.
- **Detection of low level and new resistance mechanisms** (AmpC, ESBL, MBL, etc..) to keep constantly in line with microbial evolutions.
- **Flexibility** to test unusual organism-drug combinations and to provide AST results when susceptibility break points change.
- Possibility to **rapidly test new antibiotics** due to short development time for new Etest strips.



# Etest<sup>®</sup>



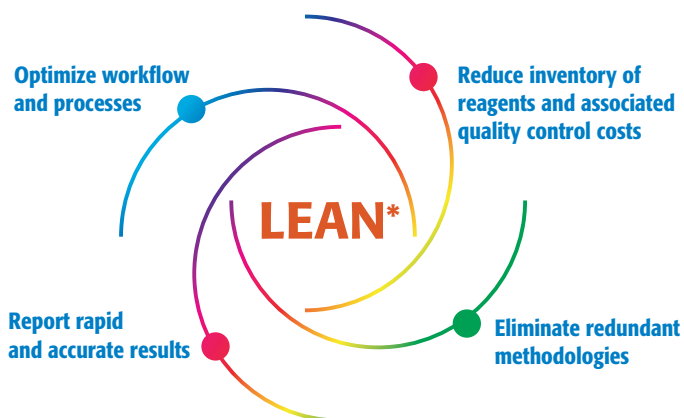
## ...to Your AST ...Detection Needs

...of two well-known and trusted products,  
...a comprehensive and synergistic approach

Etest<sup>®</sup>, an agar gradient method, **perfectly complements** the VITEK<sup>®</sup> 2 system enabling you to provide MICs for **slow growing and fastidious organisms** that have unique growth requirements (Neisseria, Haemophilus, anaerobes, mycobacteria, etc), as well as extended dilution MICs when necessary.

## Improving your workflow

The synergy between VITEK 2 and Etest provides a LEAN\* approach to AST testing to help streamline laboratory operations.



\* LEAN Management is a combination of techniques aimed at eliminating any non-value added activity and in particular, concentrates on reducing losses within an organization while optimizing quality.





# One step further in resistance detection with

## bioART™

Advanced Reporting Tool for VITEK® 2 Systems

**UNIQUE  
TO  
VITEK 2™**

**If these conditions are met:**

- Organism is Acinetobacter, Pseudomonas aeruginosa
- And Antibiotic is Imipenem, Interpretation I, R

**Then take these actions:**

- Alert
- And Add comment: possibility of metallo-beta-lactamase, confirm with Etest

**24-1, Ps. aeruginosa**

**Advanced Reporting Tool Comment:**  
possibility of metallo-beta-lactamase, confirm with Etest

Antibiotic	Minimum	QI	Maximum	QC	QC	Antibiotic	QC	Inter...
Ampicillin	832	R	Confirma... Etest	264	R	Amikacin	16	S
Ampicillin/Sulbactam	832	R	Colistin	264	R	Colistin	8	I
ticardic/Clavulanic Acid	2128	R	Colistin	264	R	Colistin	81	S
Piperacilin	2128	R	Colistin	264	R	Colistin	24	R
Piperacilin/Tazobactam	2128	R	Colistin	32	R	Colistin	208	R
Cefazolin	264	R	Adriamycin	32	R	Adriamycin	2512	R
Cefuroxime	264	R	Imipenem	224	R	Imipenem/Sulbactam	2128	R

With more than 45 years of experience in microbiology, bioMérieux is a leader in the field of antimicrobial susceptibility testing solutions. We are committed to Empowering Clinical Decisions and by including Etest® in our product portfolio, we further increase your choice of innovative solutions to ensure patients receive timely, appropriate antimicrobial therapy.

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