



# GENE-UP<sup>®</sup>

REAL-TIME PCR SOLUTION FOR PATHOGEN DETECTION

Bringing confidence to the table



PIONEERING DIAGNOSTICS

# GENE-UP®

The real-time PCR pathogen detection system from the microbiology experts at bioMérieux.

To protect your customers, your company, and your reputation, you need a fast, simple, and accurate method for detecting pathogens.



GENE-UP® is an easy way to get rapid, reliable results when diagnosing food-borne pathogens.

**RAPID**

**SIMPLE**

**RELIABLE**

**FLEXIBLE**



5 minute lysis  
< 1h Run  
Remote access software



Mechanical lysis step  
Standardized and simplified workflow  
Intuitive software interface



FRET Technology  
High *E. coli* O157:H7 test specificity  
AOAC & AFNOR validated kits



Generic lysis step  
Common PCR run  
Room temperature storage  
Open platform

## GENE-UP® REAGENTS

GENE-UP® offers ready-to-use test kits for your most pressing food safety concerns. The simple workflow is the same with each test, minimizing training and improving efficiencies.

### CURRENT TEST KITS INCLUDE

- Salmonella
- STEC-STX & EAE
- *Listeria* spp.
- *E. coli* O157:H7
- *Listeria monocytogenes*
- STEC-TOP 6
- *Cronobacter* spp
- Norovirus GI
- Norovirus GII
- Duplex Norovirus GI & GII
- Hepatitis A
- Hepatitis E

## Confidence comes from a simplified workflow.

Simplifying workflow with easy-to-use pathogen detection systems can improve overall lab productivity<sup>1</sup>. With GENE-UP®, limited training is required, cross-contamination risks are decreased, and rapid results speed up the decision process — improving overall manufacturing efficiency.

### STEP 1

#### Sample preparation and enrichment

- Standardized protocol and workflow
- Single enrichment
- Incubation time between 8-24 hours

### STREAMLINE SAMPLE AND MEDIA PREPARATION

Increase efficiency and standardize performance with culture media preparation, automated weighing, diluting, and blending.

#### MASTERCLAVE®

- Approved by culture media manufacturers for more than 35 years
- Enhance your lab's workflow and productivity
- Easy & flexible – the high quality solution for every lab



### STEP 2

#### Simplified generic lysis

- Optimized productivity with Magic Cap<sup>1</sup>
- 5-minute mechanical lysis

### DILUMAT™ START AND DILUMAT™ EXPERT EVO

- New generation of precision sample dilutors improves workflow
- Speed up sample prep and reduce contamination risk
- Save time and increase the efficiency of your lab



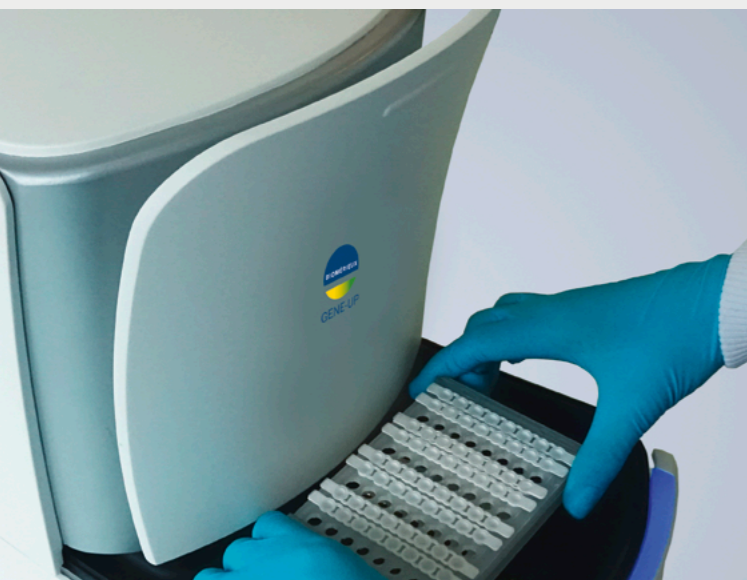
### STEP 3

#### Amplification and detection

- Same PCR run for all parameters
- Accurate results within one hour
- High level of specificity
- Real-time PCR analysis coupled with end-point melt peak analysis

### SMASHER™ AND SMASHER XL™

- Large capacity blender/homogenizer utilizes patented "Smash" effect
- Efficient blending up to 4 liters



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## Providing your clients with fast, accurate answers is good for everyone.

And GENE-UP's® reporting software gives you exactly that: fast, accurate answers. It improves manufacturing efficiencies and speeds up the decision-making process.

- Remote, web-based software allows for immediate access to results when a run is complete.
- Real-time desktop reporting allows you to react quickly.

## Confidence comes from results you can trust

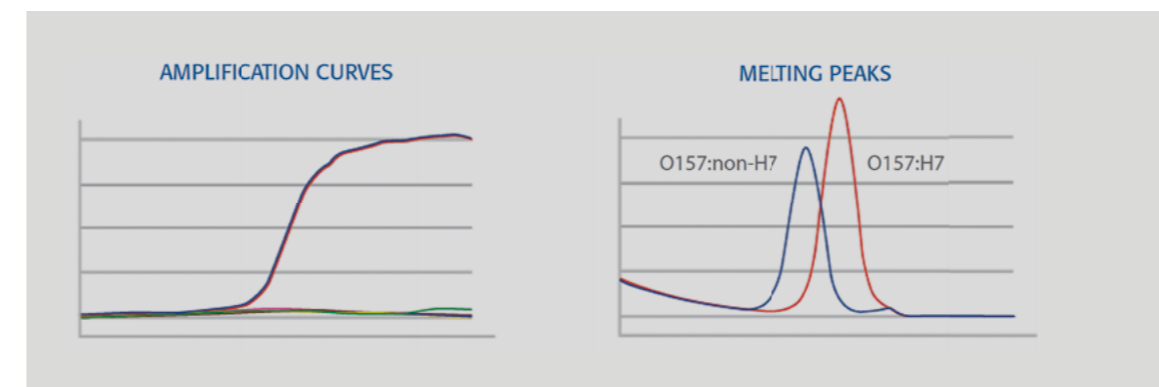
With GENE-UP®, it's more than just results. It's assurance in the results. GENE-UP® provides 3 levels of specificity by using both real time amplification curve and melt analysis to determine positive or negative results for a sample.

- Three Levels of Specificity:
  - Primers
  - FRET probes
  - Melt Peak
- Melt Peak analysis offers an additional level of sensitivity valuable for detecting low level samples

## Efficiency and reliability with the EHEC solution

The EHEC Kit combines stx and eae, and the top 6 serogroups in one solution. And, using GENE-UP® in combination with VIDAS®, the EHEC solution provides unrivaled specificity.

- Simplifies the testing protocol
- Potentially reduces the number of false positive results



1Third-Party Consultant\*\*\*Time & Motion\*\* Study

# GENE-UP®

Confidence comes from unparalleled simplicity, superior performance and maximum flexibility.



## RAPID

- Speed up the Decision Process
- Decrease Storage Cost
- Increase Productivity<sup>1</sup>



## SIMPLE

- Facilitate Laboratory Organization & Workflow
- Streamlined Training Process



## RELIABLE

- Decrease Cross Contamination Risk
- Reduce Product Waste



## FLEXIBLE

- No Need to Work in Batches
- Manage Peaks of Activity
- Testing Alternatives: Virus Testing with ceeramTOOLS®



## Confidence comes from a proven, reliable partner.

With GENE-UP®, you're not just getting an intuitive real-time PCR solution for pathogen detection, you're getting 50 years of microbiology leadership from a vigilant team that embraces the highest standards in microbiology safety.

As a bioMérieux customer you can expect:

- Dedicated customer support and Scientific Affairs teams
- Access to VILINK®, a highly secure direct connection between bioMérieux technical support and your instrument that provide real-time instrument system monitoring and rapid, secure online assistance to optimize instrument efficiency and keep your laboratory running smoothly.
- LIMS connectivity for easy uploading and downloading of sample information and results.

