

FROM INSIGHT TO ACTION

EHEC Intelligence You Can Trust

Replace Complexity with Clarity
to Detect What Matters



Your Trusted Partner in Augmented Diagnostics

PIONEERING DIAGNOSTICS

Gain Control in Your Process

bioMérieux's comprehensive solution for Enterohemorrhagic *E. coli* (EHEC) testing combines molecular precision, evolution of culture technology, and efficient workflows to deliver fast and reliable results.

Adapt your EHEC detection workflow to your specific needs. Multiple options are available to cover your risk assessment and align with regulatory expectations.

Wherever you operate, bioMérieux has you covered.



End-to-End EHEC From Detection to Confirmation

GENE-UP® PEC

Detect true EHECs and reduce non-confirmed positives up to 60%¹

GENE-UP® EH1

Detect *stx* and *eae* virulence genes

GENE-UP® EH2

Detect the Top 6 *E. coli* O-groups

GENE-UP® ECO

Detect *E. coli* O157:H7 and differentiate them from O157 non H7

VIDAS® ESPT

Immuno concentrate O157:H7 and the Top 6 *E. coli* O-groups for confirmation

IDEA™ STEC

Isolate and differentiate Shiga toxin producing *E. coli* specifically for EHEC strains

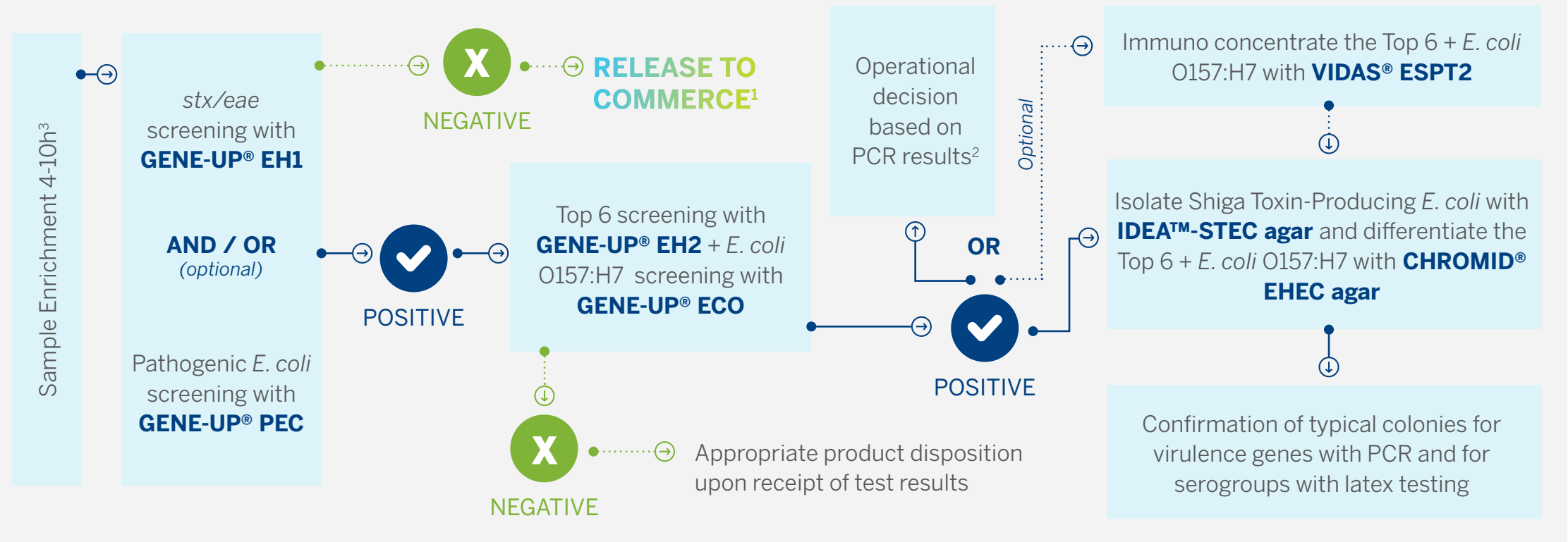
CHROMID® EHEC

Isolate and differentiate different serogroups of Enterohemorrhagic *E. coli*

1. USDA-ARS data when compared to current PCR technologies: <https://www.mdpi.com/2304-8158/14/3/382>

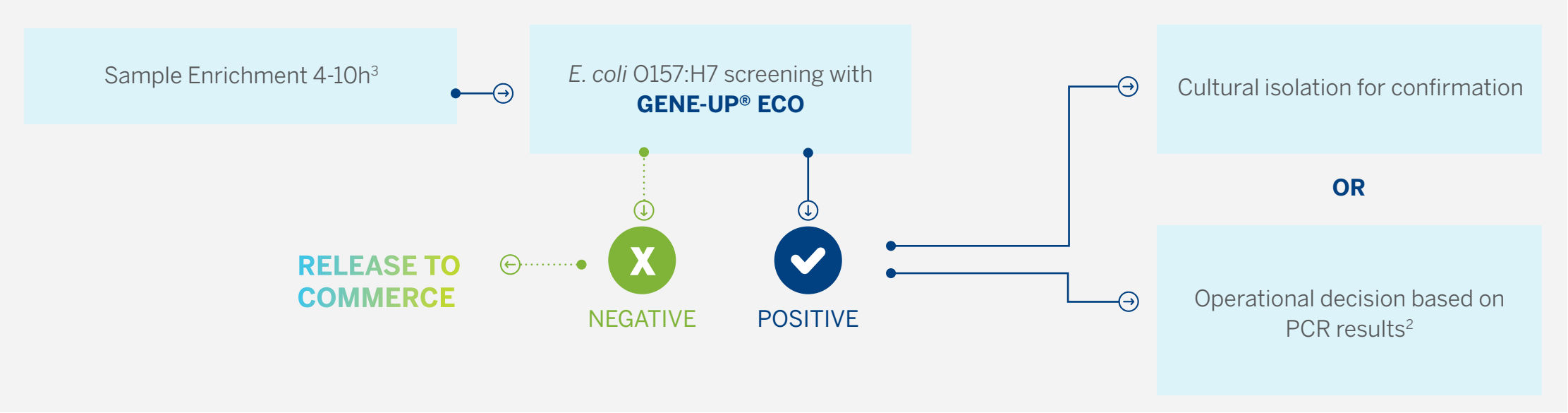
Your Workflow, Your Way: Detect What Matters*

WORKFLOW EXAMPLE 1: EHEC (TOP 7) DETECTION BEGINNING WITH GENE-UP® PEC



ASSAY	RESULT	ACTION	INTERPRETATION
PEC	-	No further action required	Report as NEGATIVE.
EH1	-		
PEC	-	No further action required	Report as NEGATIVE. STEC Confirmation Optional. No colocation of stx1/2 with eae.
EH1	+		
PEC	+	No further action required	Report as NEGATIVE.
EH1	-		
PEC	+	Proceed to next workflow step	Report as Potential Positive.
EH1	+		

WORKFLOW EXAMPLE 2: DETECTION OF E. COLI O157:H7



Connect with our specialists to identify the workflow best suited to your needs.



Our experts will work with you to evaluate your facility, risk profile, and testing goals. Together, we'll tailor an EHEC workflow that fits your operations, supports compliance, and delivers reliable results you can act on with confidence.

biomerieux.com/ehec

1. Because of the increased accuracy of GENE-UP® PEC, the FSIS stated in an ASK FSIS response that GENE-UP® PEC-screened negative samples can be released into commerce, based on scientific evidence
2. Operational decision to be made based on PCR results due to time sensitivity and product shelf life
3. Four-hour enrichment available with semi-automated DNA extraction and sample cloth device
*Depending on your local regulations, contact your bioMérieux representative for more information

The bioMérieux Advantage: Faster Results for Smarter Decisions

By delivering control through clear results, bioMérieux's suite of solutions help reduce testing ambiguity, accelerate decision-making and limit product diversion. That means fewer delays, fewer disruptions, and greater assurance that your supply chain remains safe and compliant.

Enhanced Operational Efficiency



Harmonized protocols to reduce cost and hands-on time¹



Workflows adaptable to your specific needs



Release product faster

Results You Can Act On



Fast and informed operational decision making



Avoid unnecessary product hold, scrap, or diversion



Decreased presumptive positive, non-confirmed, and unnecessary confirmation steps²

1. Harmonized protocols for *Salmonella*, *E. coli* O157:H7, and Top 6 *E. coli* O-Groups - one enrichment, one DNA extraction, multiple results

2. USDA-ARS data when compared to current PCR technologies: <https://www.mdpi.com/2304-8158/14/3/382>

THE AUGMENTED DIAGNOSTICS APPROACH: FROM TEST RESULTS TO ACTIONABLE INSIGHTS

bioMérieux's Augmented Diagnostics is an innovative approach to food safety & quality. This approach gives you faster, more confident decisions by combining **advanced microbial testing** with **cutting-edge genomics, data science**, and the support of **trusted industry experts**.

ADVANCED
MICROBIOLOGY

MOLECULAR

GENOMICS

DATA SCIENCE
& EXPERTISE

AUGMENTED DIAGNOSTICS

SMART & DYNAMIC RISK ASSESSMENT

MICROBIOLOGY & MOLECULAR



SAMPLE & MEDIA PREPARATION

- BIOBALL®
- BLUE LINE™
- Culture Media



SPOILERS & QUALITY INDICATORS

- TEMPO®
- D-COUNT®
- BACT/ALERT®
- GENE-UP®
- VERIFLOW™



PATHOGEN DETECTION

- VIDAS® KUBET™
- Chromogenic Plates
- GENE-UP®



MICROBIAL IDENTIFICATION

- VITEK® MS PRIME
- VITEK® 2 COMPACT
- API®



CUSTOM MOLECULAR BIOLOGY

- The xPRO™ Program

AUGMENTED-DX PORTAL

Data Insights, Investigations, Reporting



INVESTIGATION & ROOT CAUSE ANALYSIS

Pathogen Investigation:

- GENE-UP® TYPER
- PATHOGEN GENOMICS APP

Spoiler Investigation:

- SMARTBIOME™



DIGITALIZATION

- ENVIROMAP®
- VILINK®
- EM Risk Data Models



PEOPLE & PROCESS UPSKILLING

- EM E-Learning
- Process Optimization
- EM Consulting Services

GENOMICS & ENVIRONMENTAL MONITORING EXPERTISE



LEARN MORE ABOUT THE AUGMENTED
DIAGNOSTICS APPROACH ON OUR WEBSITE.