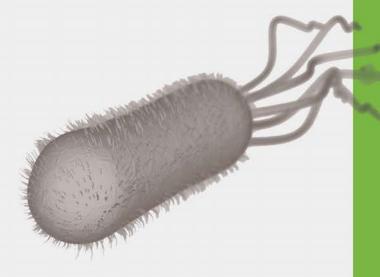




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# Better food safety by getting results **sooner**.

When it comes to microorganism testing, traditional and rapid methods still don't meet the speed and ease-of-use demands of food and beverage processors. Companies need same-day results so product can be released quickly and environmental contamination can be averted or minimized. MicroSnap™ is the only test that addresses these needs with same-shift results from an easy-to-use test.

MicroSnap offers significant improvements over traditional and other methods by reducing time, costs, and improving usability. The tests detect a larger dynamic range than traditional tests, making it flexible for a variety of applications. With MicroSnap, companies receive results sooner, become more efficient, and most importantly, improve food safety.



	Traditional Methods	MicroSnap	
Rapid Results	-	+	
<b>Labor and Material Savings</b>	-	+	
Wide Dynamic Range*	•	+	
<b>Probability of Detection</b>	<b>5</b>	+	
Easy to Use	+	+	
Easy Sample Prep	+	+	
Sensitivity	+	+	
Specificity	+	+	
Quantitative Results	+	+	

# Rapid results where you need them most.



### **Raw Material Testing**

Screen for microbiological contamination before materials go into processing.

- Prevent contaminated raw materials from entering production
- · Avoid costly hold times that shorten raw material shelf life
- Prevent equipment down time and lost earning potential
- Quickly verify Certificates of Analysis on raw materials
- Move materials into production sooner to return investment faster



# Plant Environmental Monitoring

Test environmental surfaces and equipment for same-day bacterial results of plant hygiene.

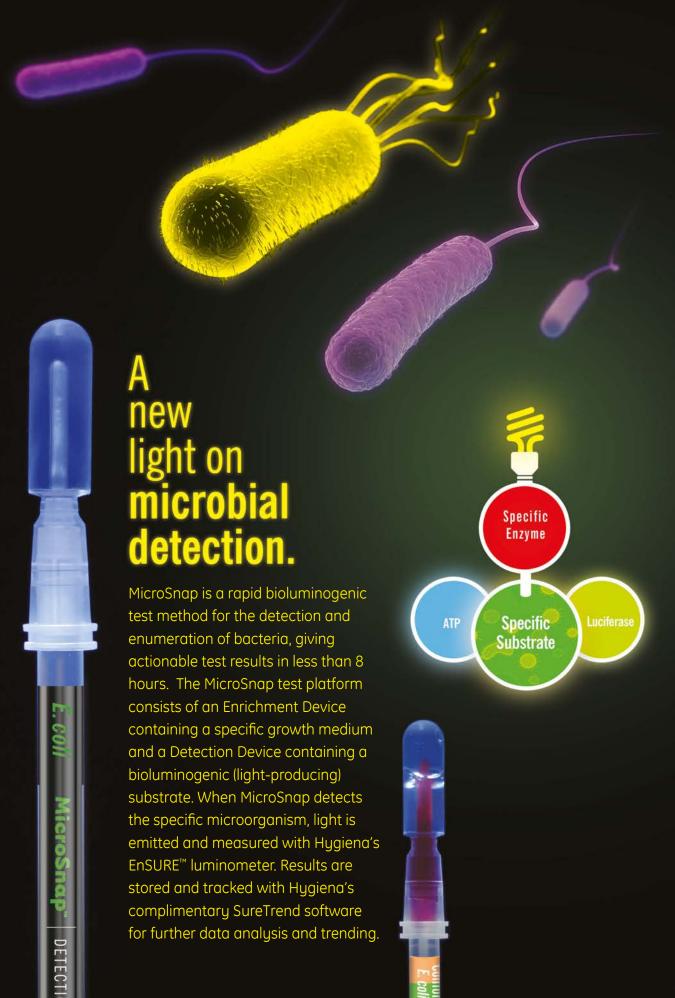
- Prevent environmental contamination from affecting several days of product
- Rapidly evaluate the effectiveness of cleaning and sanitation
- Show due diligence to auditors and customers
- Identify and troubleshoot problem areas in hours versus days
- Reduce outside laboratory costs by processing samples in-house



### **Finished Product Testing**

Verify microorganism levels sooner for quicker release and better quality assurance.

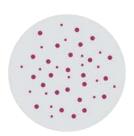
- Release time-sensitive products sooner
- React to contamination before product ships
- Prevent costly recalls
- Protect your brand name and reputation
- Test finished products in-house to cut outside laboratory costs



# No more counting colonies.

# **CFU**Colony Forming Units

Traditional plating methods utilize colony counting techniques to determine CFU levels. MicroSnap technology derives equivalent CFU values using light detection.







EnSURE displays measurements in relative light units (RLU's). The RLU number is correlated to colony forming units (CFU's). Total, Coliform, and E. coli are AOAC-RI Performance Tested<sup>SM</sup> Methods.





# CFU: RLU - Conversion

CFU/ml or swab*		E. coli	Coliform	Enterobacteriaceae**	Total
<10	20	<2	<2	NA	<10
<20	50	<4	<4	NA	<20
<50	50	<7	<7	<10	<50
<100	50	<12	<12	<20	<100
<200	50	<20	<20	<40	<200
<500	50	<35	<35	<100	<500
<1,000	50	<60	<60	<200	<1,000
<5,000	50	<180	<180	<1,000	<5,000
<10,000	50	<300	<300	TNTC	TNTC

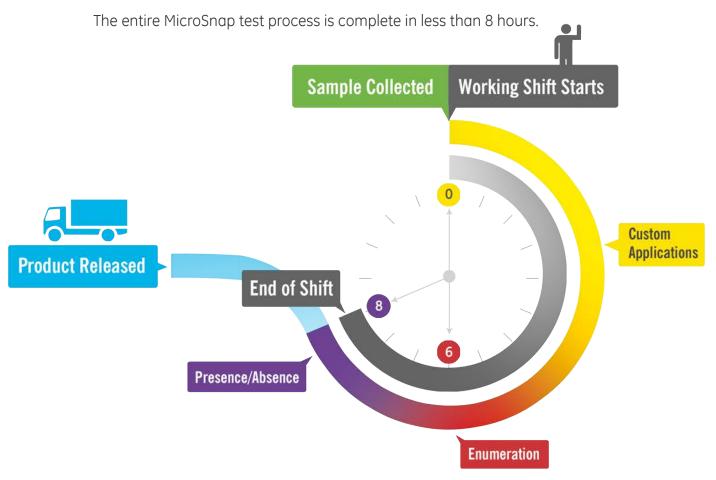
\*Direct sample e.g., 1 mL liquid or surface swab. Dilution factors must be accounted for with product samples.

\*\*Data reflects dynamic range after 6 hour incubation. See product instructions for more details.

# **Method Comparison**: Time to Results



# Same-shift results.



# <8 hours: Presence/Absence</pre>

Sample is collected and enriched at the begining of the shift and incubated for up to 8 hours, depending on the test format.

# 6-7 hours: **Enumeration**

Sample is collected and enriched at the beginning of the shift and incubated for 6-7 hours, depending on the test format.

# < 6 hours:</p> Custom Applications

MicroSnap™ can deliver results even faster for applications with high detection limits.

Contact us for customized instructions for your specific application.

E-mail your request to info@hygiena.com

Microbiology in a Snap

MicroSnap's efficient design makes microorganism testing easier than ever. Each device's patented **Snap-Valve** holds a precise amount of specific enrichment broth, ready to be used for either product or surface samples. Within the enrichment device is a **built-in pipette**, enabling convenient and efficient transfer of enriched sample to the detection device. After activation, the detection device delivers final results in ten minutes, making the total time to results **8 hours or less.** That means less time waiting for lab results or counting plates.



# **Additional Benefits**

# **Reduce Materials**



No serial dilutions to make.



Fewer replicates required.

# Eliminate Lab Costs



Reduce lab fees.



No expensive overnight shipping.

# Reduce Inventory Costs



Shorter product hold time.



Less inventory in warehouse.

# **Available Tests:**

# MicroSnap



#### **Detection Times:**

Enumeration - 6 hours Presence/Absence - 8 hours

Instructional Video Online

#### Part No:

Enrichment Device - MS1-CEC Enrichment Broth - MS1-CEC-BROTH-2ML Enhanced Nutrient Broth - MS1-N-BROTH-9ML Enhanced EB Broth - MS1-EB-BROTH-9ML

Detection Device - MS2-ECOLI

**Detects:** E. coli



### MicroSnap



#### **Detection Times:**

Enumeration - 6 hours Presence/Absence - 8 hours

Instructional Video Online

#### Part No:

Enrichment Device - MS1-CFC Enrichment Broth - MS1-CEC-BROTH-2ML

New! Enhanced Nutrient Broth - MS1-N-BROTH-9ML New! Enhanced EB Broth - MS1-EB-BROTH-9ML

Detection Device - MS2-COLIFORM

#### **Detects:**

E. coli Klebsiella Citrobacter Enterobacter

PERFORMANCE TESTED LICENSE NUMBER 071302

# MicroSnap

#### **Enterobacteriaceae**



#### **Detection Times:**

Enumeration - 6 - 7 hours Presence/Absence - 8 hours

Instructional Video Online

#### Part No:

Enrichment Device - MS1-EB New! Enhanced EB Broth - MS1-EB-BROTH-9ML

Detection Device - MS2-EB

#### **Detects all species within the Enterobacteriaceae family including:**

E. coli Serratia Klebsiella Shigella Citrobacter Salmonella Enterobacter Yersinia

#### MicroSnap **Total Viable Count**



#### **Detection Times:**

Enumeration - 7 hours

Instructional Video Online

#### Part No:

Enrichment Device - MS1-TOTAL Enhanced Nutrient Broth - MS1-N-BROTH-9ML Detection Device - MS2-TOTAL

#### **Detects Gram positive and Gram negative** aerobic and facultative bacteria, including:

E. coli Listeria Shigella Vibrio Bacillus Staphylococcus Pseudomonas



# **EnSURE**

# One Instrument | Multiple Tests

Ensure is a quality monitoring system that uses a single instrument to collect and analyze data from multiple quality tests. Using new state-o f-the-art technology and patented designs, the Ensure system is an easy-to-use, flexible, and accurate quality monitoring system for the entire line of MicroSnap products. In addition, Ensure measures tests for surface, water, and high-sensitivity ATP, and specific enzymes.



#### System Details:

- Stores up to 5,000 locations, 200 User ID's, 100 test plans
- Runs on 2 AA batteries for several months of use
- Advanced photodiode sensor is stable and robust
- No required calibration or yearly maintenance
- PC compatible via USB
- Part No: ENSURE

# Additional Tests:

#### **UltraSnap™: Surface ATP**



UltraSnap™ is a user-friendly surface ATP test device with a pre-moistened swab bud for better recovery of test sample.

Part No: US2020

#### **AquaSnap™: Water ATP**



AquaSnap™ detects the presence of ATP in liquid samples. This pen-sized test device accurately monitors biomass and organic residue in water or liquid samples. Part No: AQ100FX/AQ100X

#### **SuperSnap**™: Allergen Prevention



SuperSnap $^{\text{\tiny M}}$  is a high-sensitivity ATP test device for surfaces and also an effective tool to for the prevention of allergen cross contamination, or when dealing with difficult samples.

Part No: SUS3000

#### **CrossCheck: Acid Phosphatase**



CrossCheck measures acid phosphatase enzyme activity on finished products to verify thermal processing and on food contact surfaces to measure raw meat residue hazards.

Part No: CX-3000

#### **ZymoSnap ALP: Alkaline Phosphatase**



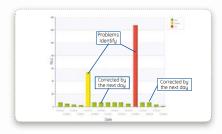
ZymoSnap ALP measures alkaline phosphatase enzyme activity in milk and dairy samples for 5-minute verification of pasteurization efficacy. Part No: ZS-ALP-100



# **Data Analysis Software**

### **Pre-loaded Reports**

Customizable and makes data analysis fast and easy.



### **Automated E-mails**

Keeps you up to speed on facility hygiene levels.





### The Dashboard

Puts important data right in front of you.

Learn more about SureTrend Software online at hygiena.com.



#### Step 1: Enrichment

#### **PRODUCT**

Enrichment Device: Coliform, *E. coli*Enrichment Device: Enterobacteriaceae
Enrichment Device: Total Viable Count
Enrichment Broth: Coliform, *E. coli*9 mL Enhanced Nutrient Broth: Total, Coliform, & *E. coli*9 mL Enhanced EB Broth: EB, Coliform, & *E. coli*Digital Dry Block Incubators

#### Step 2: Detection

#### **PRODUCT**

MicroSnap *E. coli* Detection Device MicroSnap Coliform Detection Device MicroSnap Enterobacteriaceae Detection Device MicroSnap Total Viable Count Detection Device

EnSURE Monitoring System & SureTrend Software

CATALOG NO.	QTY
MS1-CEC	100
MS1-EB	100
MS1-TOTAL	100
MS1-CEC-BROTH-2ML	100
MS1-N-BROTH-9ML	100
MS1-EB-BROTH-9ML	100
See website	1

CATALOG NO.	QTY
MS2-ECOLI	100
MS2-COLIFORM	100
MS2-EB	100
MS2-TOTAL	100

ENSURE





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