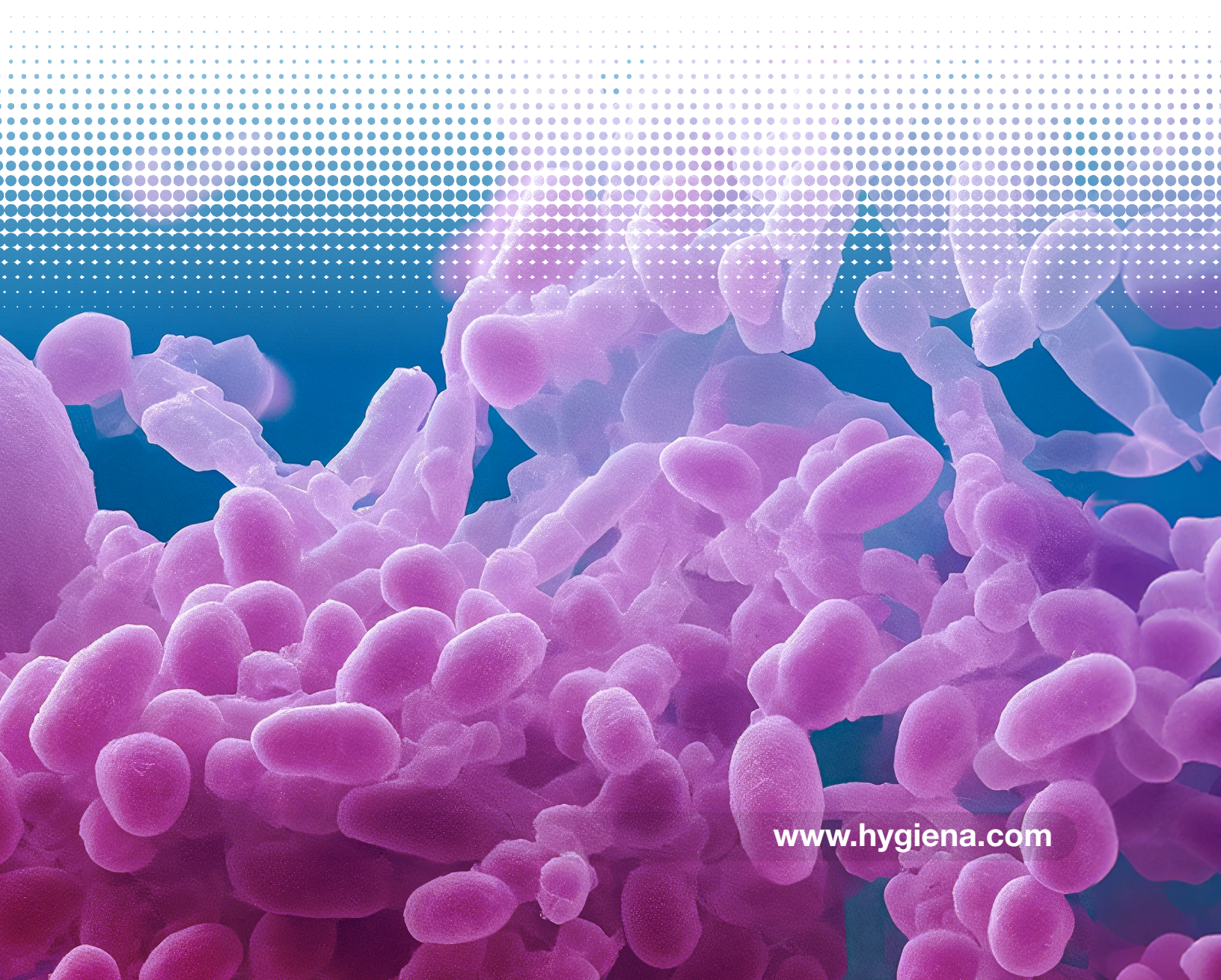




MicroSnap[®]

Rapid Microorganism Enumeration



www.hygiena.com



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Rapid Results. Confident Decisions. Uncompromised Food Safety.

When it comes to quantitative microorganism testing, traditional methods simply can't keep pace with the speed and efficiency demands of modern food production. You need fast, accurate results to streamline processes, reduce costs and release safe products sooner.

MicroSnap® and **MicroSnap® Surface Xpress™ (SX)** provide the actionable data you need to maximize efficiency and protect your brand. Our innovative technology delivers quantifiable results in as few as 4 hours - that's up to 6 times faster than other available methods.

The MicroSnap system streamlines microbial testing through an innovative two-device design combining user-friendly bioluminescent technology with quick enumeration capabilities. Validated by **AOAC RI** and powered by the **EnSURE® Touch**

luminometer, you'll gain precise, accurate results with minimal handling.

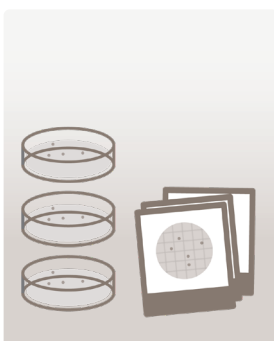
Taking simplicity further, **MicroSnap® SX** pioneers the industry's first all-in-one solution for surface testing - seamlessly integrating sample collection, enrichment and enumeration into a single device.

Leverage the power of connected data with automatic result syncing to Hygiena's **SureTrend®** software. Easily monitor, trend and analyze test data to drive proactive risk reduction.

The combination of MicroSnap, EnSURE Touch and SureTrend enables proactive prevention of food safety issues and strengthens your brand reputation – a true revolution in environmental monitoring powered by Hygiena's innovative solutions.

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Microorganism Testing Methods



	Traditional Methods	MicroSnap	MicroSnap Surface Xpress
Rapid Results	-	+	++
Labor and Material Savings	-	+	++
Wide Dynamic Range	-	++	++
Probability of Detection	-	+	+
Precision & Accuracy	+	++	++
Easy to Use	-	+	++

Comprehensive In-House Testing for Total Quality Assurance

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



Environmental Monitoring

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

- Prevent environmental contamination from affecting several days' worth of production output
- 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



MicroSnap®

Diverse Applications, One Rapid Testing Solution

MicroSnap is a rapid microbial testing system that delivers quantitative results for a wide range of sample types, including liquid, solid and surface samples. This innovative system offers a comprehensive solution for detecting and

enumerating key indicator organisms, such as **Total Viable Count (Total)**, **Enterobacteriaceae (EB)**, **Coliform**, and **E. coli**, in a fraction of the time required by traditional methods.

1 SWAB

Swab the surface using the pre-moistened swab



2 INCUBATE

Incubate the device for 6 or 7 hours, depending on the required precision



3 TRANSFER

Transfer sample to Detection device and activate with snap-valve



4 ANALYZE

Insert the activated device into EnSURE Touch and read results in 10 seconds



Benefits

- Simple-to-use enrichment and detection devices
- Rapid test for surface, liquid and solid product samples
- Results in as few as 6 hours
- Automated CFU counting with seamless data sync
- MS1-TOTAL/ MS2-TOTAL - AOAC-RI #031501
- MS1-CEC/ MS2-COLIFORM - AOAC-RI #071302
- MS1-CEC/ MS2-ECOLI - AOAC-RI #071302



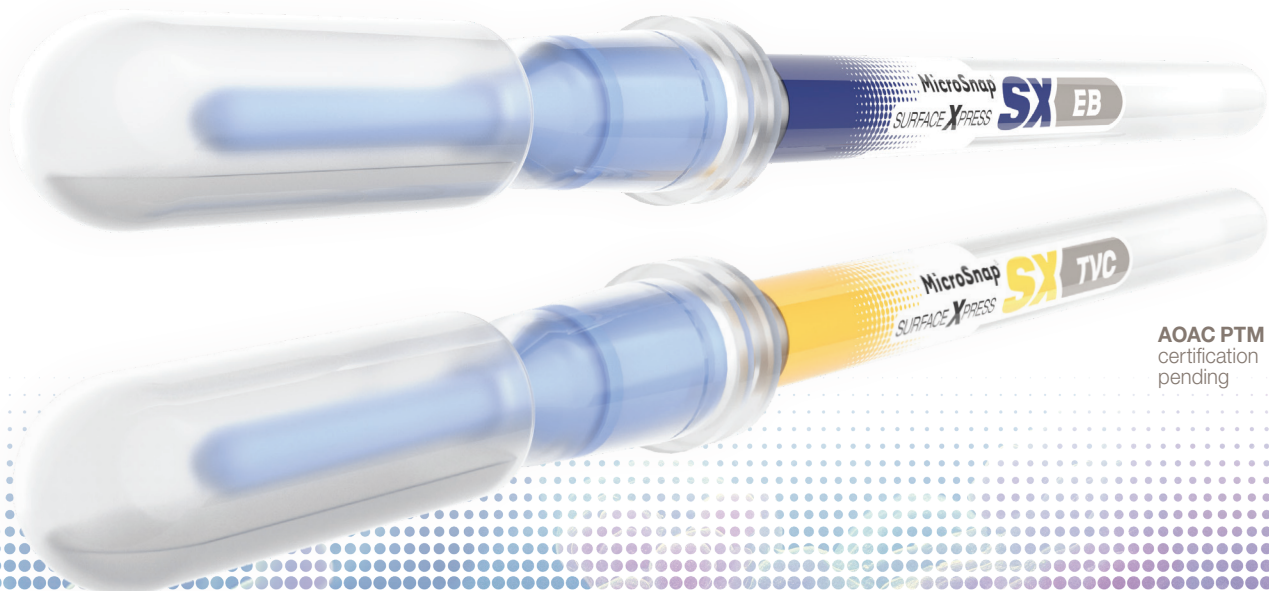
MicroSnap® SX SURFACE X^{PRESS}™

The Most Innovative Microbial Test for Surfaces

The Rapid Reality That Traditional Methods Can't Achieve

MicroSnap SX is a revolutionary all-in-one device that simplifies and accelerates microbial testing for surfaces. By combining enrichment and enumeration into a single device, MicroSnap SX offers a streamlined 3-step workflow that delivers

results in as few as 4 hours. This innovative solution provides food safety and quality professionals with a faster and more efficient alternative to traditional MicroSnap testing, while maintaining the same level of accuracy and reliability.



AOAC PTM
certification
pending

“Snap-Valve Technology”

**“All-in-one device combines collection,
enrichment and enumeration”**

Simple 3-Step Workflow

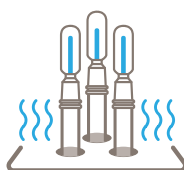
1 SWAB

Swab the surface using the pre-moistened swab



2 INCUBATE

Incubate the device for 4 or 5 hours, depending on the required precision



3 ANALYZE

Insert the activated device into EnSURE Touch and read results in 10 seconds



Automatically sync results for alerts, analysis and trending



TESTS	INCUBATION (t) : LOQ*	TEMPERATURE
Total Viable Count (TVC)	4 hours: ≥ 100 CFU or 5 hours: < 10 CFU	32 ± 0.5 °C
Enterobacteriaceae (EB)	4 hours: ≥ 80 CFU or 5 hours: < 10 CFU	37 ± 0.5 °C

* LOQ: Limit Of Quantitation in CFU/sample

“Results in as few as 4 hours”

“Optimized for Surface Testing”

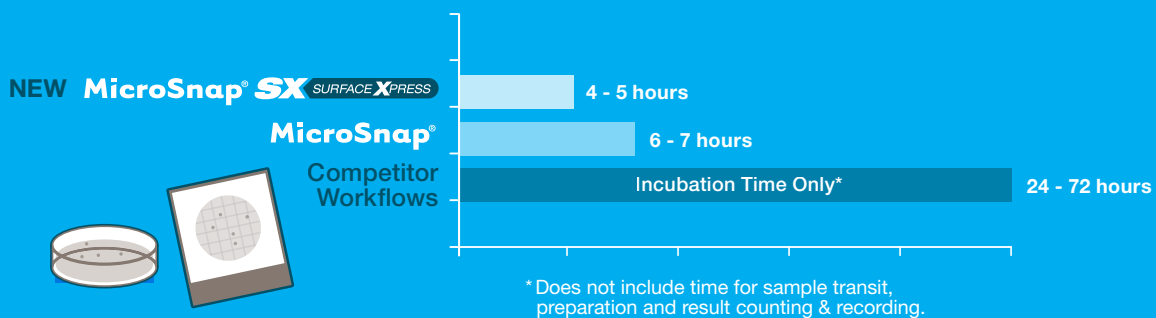
Faster Decisions for Proactive Quality Controls

Results Up to 6X Faster Than the Competition

Most methods require 24 - 72 hours of incubation. In today's production environment, that's an unacceptable and costly delay jeopardizing efficiency and food safety. MicroSnap's innovative and future-forward capabilities renders traditional

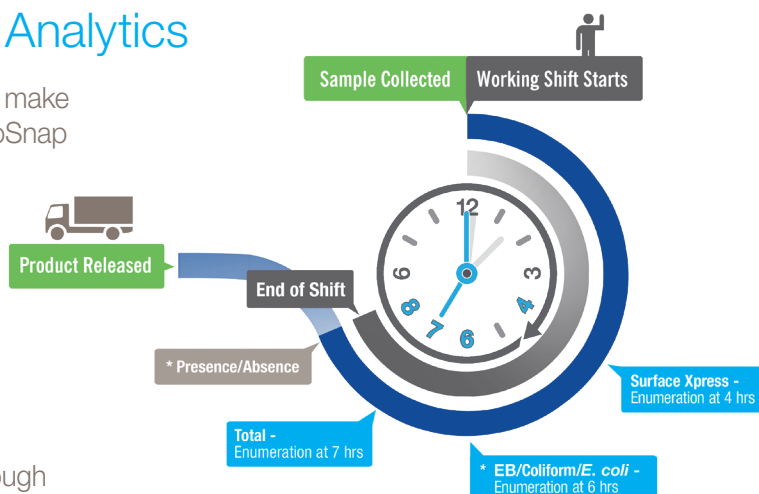
methods obsolete. With MicroSnap, you can identify and mitigate risks in a fraction of the time required by conventional methods. Rapidly validate preventive controls and hygiene monitoring to protect your brand reputation and the integrity of your products.

Method Comparison: Time-to-Decision



Real-time Alerts & Data Analytics

Experience the power of rapid results and make informed decisions with confidence. MicroSnap provides the speed, accuracy and data connectivity you need to stay ahead of potential quality issues and protect your brand.



Modernizing Microbial Data Management

Traditional methods leave you wading through disjointed data sources and cumbersome processes. MicroSnap revolutionizes microbial testing intelligence with automated data consolidation and seamless software integration. Centralized analytics unlock insights overlooked by antiquated approaches, accelerating decision-making powered by a unified data ecosystem.



Automated Precision vs. Subjective Guesswork

The EnSURE Touch system is the perfect companion to the MicroSnap workflow. This state-of-the-art instrument is designed to detect the ultra-sensitive light output from a highly-specific bioluminescence reaction, ensuring accurate and reliable enumeration of the target organisms. With a wide dynamic range and advanced algorithms, the EnSURE Touch provides precise results in CFUs across a broad spectrum of contamination levels.

- Handheld, portable and small footprint
- Automated counting in 10 seconds
- Precise, reliable results using a biochemical technology
- Integrated data recording and analytics via SureTrend

No More TNTC or Subjective Interpretation

1 - 1,000,000 CFU* – Both MicroSnap and MicroSnap SX offer a wide dynamic range, ensuring accurate and quantifiable results across various contamination levels (>5 log range). From low-level detection to high bacterial loads, you can trust the results to guide your decision-making process.

*The actual dynamic range may vary depending on the sample type, target microorganism and incubation time.

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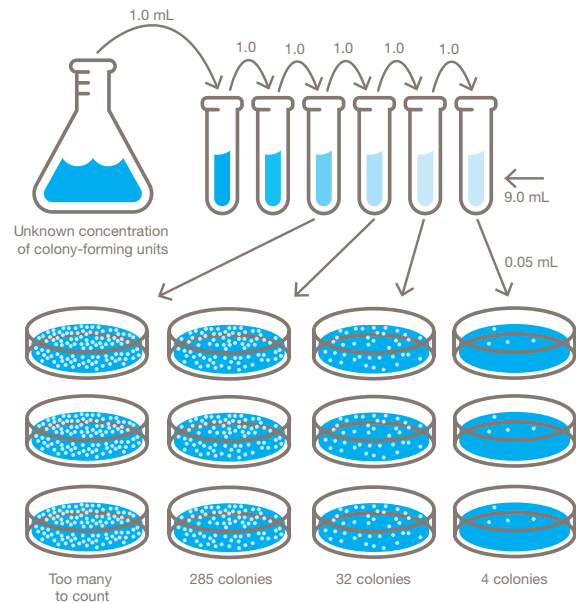
Inefficiencies of “Rapid” Plate Methods

- Minimum 24 hours of incubation time
- Minimum 1 – 2 minutes per plate for manual counting
- Additional equipment required for automated counting
- Multiple plates required per sample for reliability
- Increased risk of contamination

Additional Drawbacks of “Rapid” Plate Methods

In addition to being slow and error-prone, the plating method requires investing in equipment like colony counters, plate spiralizers and resources for preparing volumes of media ahead of time. All of these factors drive up the cost and operational burden of conventional methods.

- Secondary collection devices
- pH adjustments
- Pipetting
- Sample loss
- Interpretation guides
- Hand-counts, additional lighting, counting equipment
- Setting in duplicate/triplicate
- Bulky, expensive equipment



MicroSnap® Unleash Sustained Profitability

- + Lower average cost per test
- + Reduced labor, materials & equipment costs
- + Increased production capacity
- + Rapid identification of issues
- + Proactive corrective actions
- + Optimized resource allocation
- + Shorter hold times



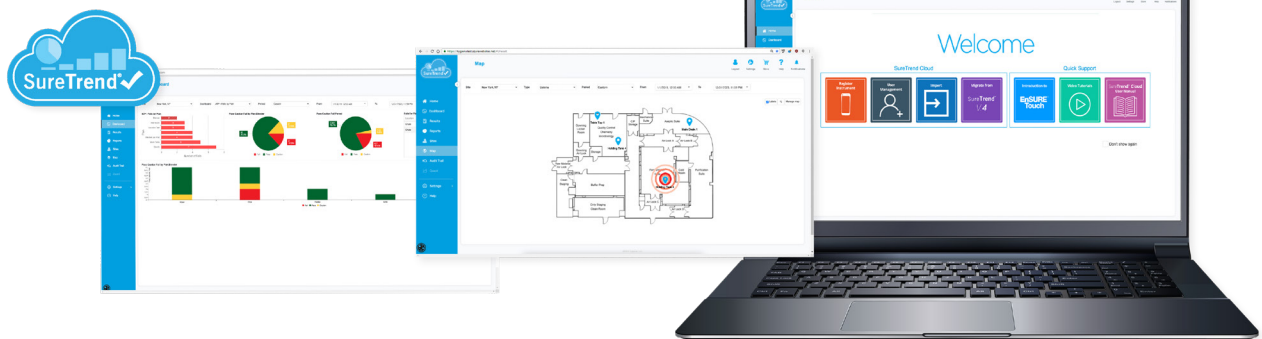


SureTrend® Data Analytics

All Your Food Safety Data in One Platform

SureTrend is designed to be your central hub for all food safety data. The platform seamlessly integrates Hygiena's testing devices and other data sources, allowing you to consolidate and manage

your HACCP, environmental monitoring program and any operational data in one place.



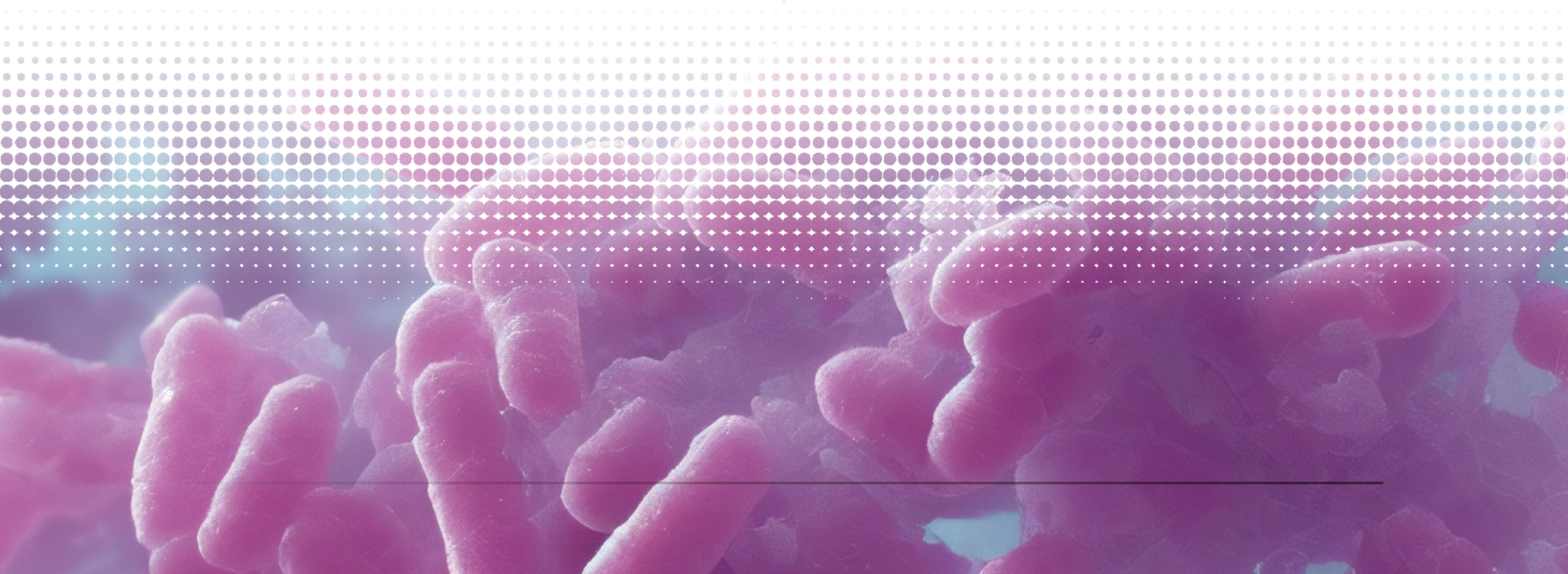
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The Path to Data-Driven Quality Excellence

- Automate data sync, reduce errors, consolidate data sources
- Build tailored reports for trend analysis, compliance and improvement
- Transform complex data into actionable insights via charts/dashboards
- Identify issues early with real-time alerts for rapid response
- Manage multi-site, compare results and identify best practices

EnSURE Touch is Designed to Work with SureTrend

- Automatically sync test results and device data
- Access real-time insights and trend analysis across multiple facilities
- Set up customizable alerts and notifications for out-of-spec results
- Generate comprehensive reports for audits and compliance purposes
- Manage user access, testing plans, and device settings remotely



One Connected Platform for All Environmental Monitoring

Hygiena's Innovation Brings You

- **Comprehensive Test Coverage—**
Cover all your bases with Hygiena's extensive range of diagnostic tests
- **Streamlined Workflows—**
Integrate and standardize environmental monitoring across all test types
- **Rapid, Accurate Results—**
Accelerate decisions with MicroSnap and other Hygiena rapid solutions
- **Real-Time Visibility—**
Identify potential contamination risks quickly for swift corrective actions
- **Unified Data Management—**
Consolidate and manage all food safety data within SureTrend platform
- **Actionable Insights—**
Utilize powerful analytics to assess risks and drive improvements





EnSURE® Touch

The Next-Generation Quality Monitoring System

Introducing EnSURE Touch, a cutting-edge system designed to streamline your environmental monitoring program. This user-friendly device works seamlessly with MicroSnap and other Hygiena tests to provide rapid, accurate results for a wide range of contaminants.

Intuitive Touchscreen Interface

Rapid Bioluminescence Detection

Wireless Data Sync

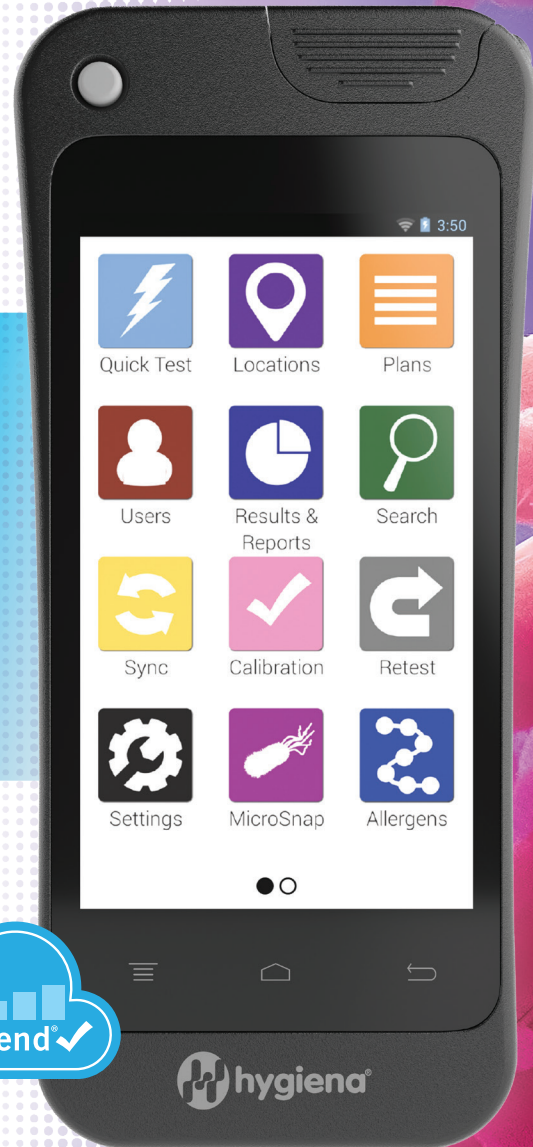
Easy Test Navigation

Effortless Test Execution

Compact & Portable Design

Features & Benefits

- Rapid and accurate testing for bacteria, pathogens, enzymes and indicator organisms
- Real-time monitoring allows quick response to issues
- Wireless connectivity and automatic data syncing with SureTrend data platform
- User-friendly design, like a smartphone, with a large touchscreen display
- Manage user access, testing plans and device settings remotely
- Easy grouping of testing locations into plans and randomization of test locations
- No need to send out for re-calibration when paired with CalCheck



NEW

MicroSnap® **SX** TVC



Detection Times:
Enumeration - 4 or 5 hours

Ref No: ASY0425

MicroSnap® **SX** EB



Detection Times:
Enumeration - 4 or 5 hours

Ref No: ASY0430

EnSURE® Touch

Ref No: ETOUCH

EnSURE® Touch Charging Dock

Ref No: ASY0505



Digital Dry Block Incubators

16 - 35 Well

Ref No: INCUBATOR2

6 - 12 Well

Ref No: INCUBATOR



MicroSnap® **Total** (Total Viable Count)



Detection Times:
Enumeration - 7 hours

Ref No:
Enrichment Device - MS1-TOTAL
Detection Device - MS2-TOTAL
Enhanced Nutrient Broth - MS1-N-BROTH-9ML

MicroSnap® **EB** (*Enterobacteriaceae*)



Detection Times:
Enumeration - 6 - 7 hours
Presence/Absence - 8 hours

Ref No:
Enrichment Device - MS1-EB
Detection Device - MS2-EB
Enhanced EB Broth - MS1-EB-BROTH-9ML

MicroSnap® **Coliform**



Detection Times:
Enumeration - 6 hours
Presence/Absence - 8 hours

Ref No:
Enrichment Device - MS1-CEC
Detection Device - MS2-COLIFORM
Enhanced Nutrient Broth - MS1-N-BROTH-9ML
Enhanced EB Broth - MS1-EB-BROTH-9ML

MicroSnap® **E. coli**



Detection Times:
Enumeration - 6 hours
Presence/Absence - 8 hours

Ref No:
Enrichment Device - MS1-CEC
Detection Device - MS2-ECOLI
Enhanced Nutrient Broth - MS1-N-BROTH-9ML
Enhanced EB Broth - MS1-EB-BROTH-9ML

CalCheck - LED Calibration Verification Device



Ref No: CAL

Additional Supported Tests

- **AllerSnap®** - Sensitive surface test for detecting protein residues left behind after cleaning
- **AquaSnap®** - Water ATP test for monitoring bio-mass and organic residue in liquid samples & CIP
- **CrossCheck ACP** - Acid phosphatase test for monitoring cooking efficiency and food safety
- **SuperSnap®** - High-sensitivity ATP test for allergen prevention and high-risk areas
- **UltraSnap®** - Surface ATP test for verifying sanitation effectiveness
- **ZymoSnap ALP** - Alkaline phosphatase test for verifying milk pasteurization effectiveness

Performance Tested Methods [PTM] is a service mark of AOAC INTERNATIONAL, Rockville, MD, USA.



One Health Diagnostics™



If you have any questions, visit: hygiena.com/microsnap

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