

AUGMENTED DIAGNOSTICS FOR SALMONELLA CONTROL

Salmonella Contamination and Prevention in the
Food Industry



Your Trusted Partner in Augmented Diagnostics

PIONEERING DIAGNOSTICS

Salmonella: A Daily Concern

GLOBALLY:

90 MILLION

diarrhea-associated diseases each year due to *Salmonella*¹

85%

of those due to food contamination¹

\$3.3 BILLION

annual economic burden caused by *Salmonella*⁵



IN THE USA:

1.35 MILLION

people are infected with *Salmonella* each year

420 DEATHS

annually in the United States²

IN THE EU:

>70,000 CASES

of salmonellosis in 2023 and

88 DEATHS⁴

16.9%

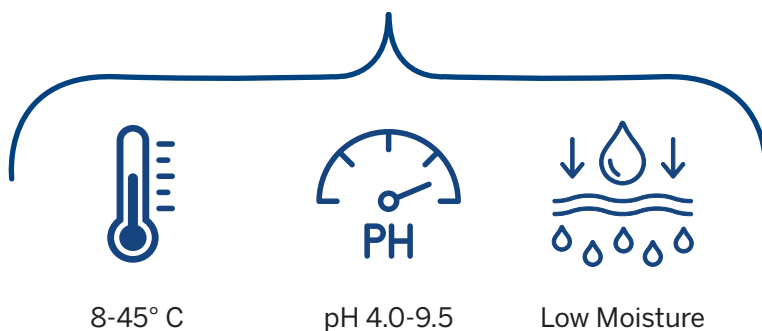
increase compared to 2022³

Salmonella – Everything You Need To Know

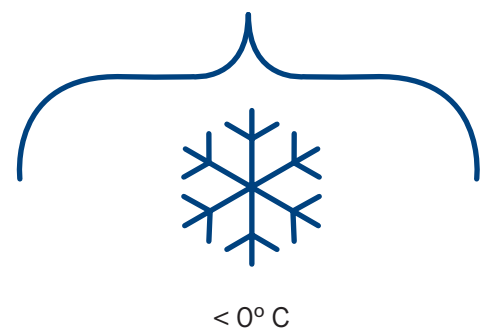
Salmonella:

- Gram-negative, rod-shaped bacterium from the Enterobacteriaceae family.
- **Causes salmonellosis** (diarrhea, cramps, fever...) that can lead to severe complications, especially in vulnerable groups such as infants, the elderly, and immunocompromised individuals.

THRIVES IN WIDE RANGE OF CONDITIONS



SURVIVES FREEZING



Ready To Tackle *Salmonella* Challenges?

Preventing contamination requires strict hygiene, regular testing, and robust environmental monitoring programs.

Improve Your Environmental Monitoring Plan

Elevate your environmental monitoring with digitalization, E-Learning, and consulting services.



ENVIROMAP®



E-Learning



Consulting Services

Execute Testing

Test for *Salmonella* using our ISO and AOAC validated solutions.



VIDAS® KUBE™



GENE-UP®



Chromogenic Culture Media



BIOBALL® LUMINATE 2.0

Identify Contaminants

Confirm the identity of microorganisms detected during screening and media growth.



API®



VITEK® COMPACT PRO



VITEK® MS PRIME

Investigate Incidents

Determine the root cause of your *Salmonella* contamination and discover where it comes from, what it is, and how to eliminate it.



GENE-UP® TYPER



Genomics Analysis



BIOBALL® LUMINATE 2.0

Optimize Your Quality Control Process

Adapt your sampling plan based on your data modeling analysis and receive expert cleaning and sanitation support.



Environmental Monitoring Performance Plan



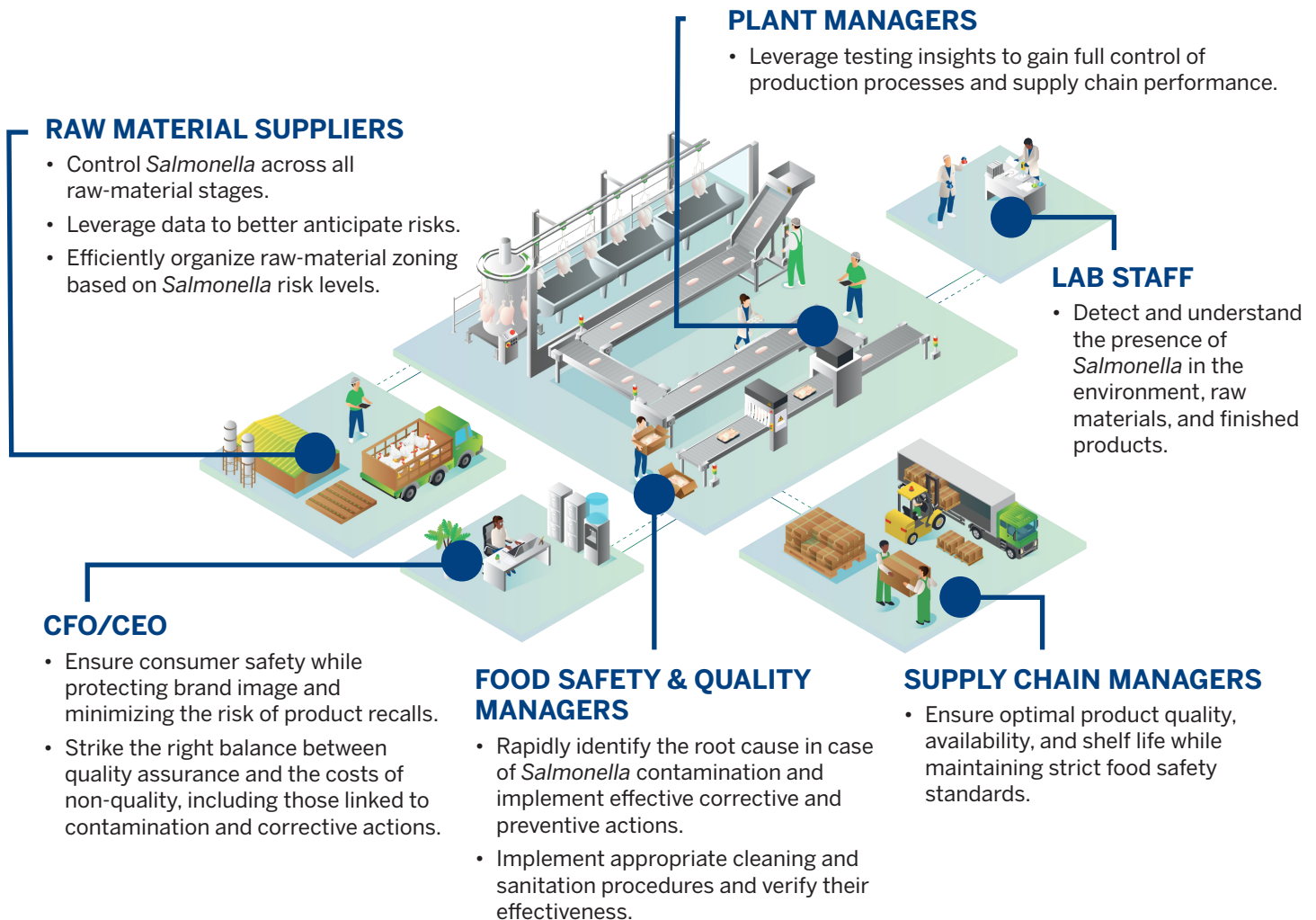
Expert Support



Cleaning & Sanitation Partners

Salmonella Contamination Concerns Everyone

Implementing an **Augmented Diagnostics** approach can help achieve your objectives while managing a *Salmonella* contamination.



bioMérieux – We Bring Value To Your Operations

MONITOR SUPPLIERS

Manage your suppliers and raw materials.

MASTER THE END TO END

Be in control of your process and its environment.

PROTECT YOUR BRAND

Have confidence in the safety and quality of your products.

ANTICIPATE

Be able to identify possible contamination in advance.

EXECUTE EFFICIENTLY

Be fast and efficient in your daily quality operations.

LEVERAGE RESOURCES

Improve your team's skills and adequately make use of energy, water, and disinfectants.

Our *Salmonella* Solutions in Action



Salmonella Risk Management in Chocolate Production

A confectionary producer faced *Salmonella* contamination issues and needed a rapid and reliable diagnostics tool to internalize their pathogen testing.



Download Case Study

Now You Know Your *Salmonella*

WHERE IT COMES FROM, WHAT IT IS, AND WHAT TO DO.

Move from test results to actionable insights and make impactful decisions within 2 hours from an isolated colony with GENE[®] UP TYPER.



Learn More



OUR INNOVATIVE APPROACH TO HELP YOU FIGHT *SALMONELLA*

bioMérieux's Augmented Diagnostics approach combines cutting-edge microbial testing technologies, such as **Microbiology** and **Molecular Biology** with the latest **Genomics** and **Data Science** methodologies. This approach is further enhanced by an innovative mindset and the expertise of **industry professionals**.

ADVANCED
MICROBIOLOGY

MOLECULAR

GENOMICS

DATA SCIENCE &
EXPERTISE

AUGMENTED DIAGNOSTICS

SMART & DYNAMIC RISK ASSESSMENT



LEARN MORE ABOUT THE
AUGMENTED DIAGNOSTICS
APPROACH ON OUR WEBSITE.

Sources:

1. <https://pmc.ncbi.nlm.nih.gov/articles/PMC5981902/#B85-ijerph-15-00863>
2. <https://www.cdc.gov/index.html>
3. <https://www.foodtimes.eu/food-system/eu-one-health-report-2023-listeriosis-salmonellosis-and-other-zoonoses-on-the-rise/>
4. <https://efsa.onlinelibrary.wiley.com/doi/10.2903/j.efsa.2024.9106>
5. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10812683/>