

BIOMÉRIEUX

# BIOBALL® LUMINATE 2.0

The bright choice to control  
the risk of cross-contamination



Your Trusted Partner in Augmented Diagnostics

PIONEERING DIAGNOSTICS

# When it comes to food safety, you can never be too accurate.

BIOBALL® LUMINATE 2.0 is a small, water-soluble ball containing an accurate and precise number of microorganisms, with a low standard deviation compared to serial dilution.






Each BIOBALL® LUMINATE 2.0 microorganism is tagged with a Green Fluorescent Protein (GFP) marker integrated into the chromosome. The GFP makes it highly stable and easy to distinguish from natural contaminants while maintaining the same characteristics and level of pathogenicity as the original strain.

## Accurate • Precise • Efficient Batch after Batch.

Designed specifically for food applications, the first range of quantitative GFP tagged microorganisms works effectively with 2 confirmation techniques:

- Easy and rapid PCR confirmation with INVISIBLE SENTINEL® kit running on VERIFLOW® platform to detect specific GFP strains
- Easy fluorescence confirmation under UV light



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**ACCURATE** Patented technology delivers **unprecedented accuracy** for quantitative microbiological quality control
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**PRECISE** Delivers greater **precision** with a reliable number of microorganisms per ball
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**EFFICIENT** Reduces risk of failed QC due to variability of inoculum boosting overall lab **efficiency** and productivity
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**FROZEN** No need to add a stress protocol for “worse case” quality control
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**READY-TO-USE** Eliminates need to cultivate before use, thus reducing workflow for inoculum preparation

*With patented, proprietary technology and techniques, BIOBALL® LUMINATE 2.0 is making quantitative microbiological quality control more accurate and efficient than ever.*

## Introducing BIOBALL® LUMINATE 2.0 Range Specifically Designed for Daily Controls and Verification of Test Methods.

The new BIOBALL® LUMINATE 2.0 is easy to distinguish from natural contaminants and suitable for a wide range of food-testing applications including:

- Positive (daily) controls\*
- Performance testing of culture media
- Method validation and verification (ISO 16140-3)\*
- Proficiency testing

\* Already evaluated for bioMérieux detection methods (protocols for positive controls and verification acc. ISO 16140-3 available under request). For other methods and applications, evaluate before use.

REFERENCE 100 cfu/10 vials	MICROORGANISM	BIOBALL® STRAIN (derived from)	CORRESPONDING STRAIN
423938	<i>Salmonella</i> Typhimurium	NCTC 12023	WDCM 00031
423939	<i>Escherichia coli</i> O157:H7	NCTC 12900	WDCM 00014
423940	<i>Cronobacter sakazakii</i>	NCTC 11467	WDCM 00214
423941	<i>Listeria monocytogenes</i> 4b	NCTC 10527	WDCM 00021
423942	<i>Listeria innocua</i>	NCTC 11288	WDCM 00017

*Effective for a wide range of testing applications—including positive (daily) quality controls of methods, method validation and verification, performance testing of culture media, and proficiency testing.*





## High Fluorescence Helps Unlock Value in the Laboratory.

- Each microorganism is individually selected and dispensed to maximize recovery rate
- Easily distinguishable from natural contaminants
- Streamlined workflow reduces labor requirements
  - Multiple use: one dilution/distribution for precise aliquots preparation.
  - Direct use: Test any day, any time. Use straight from the freezer with near-zero preparation time.

## Five Simple Steps. Minimal Prep Time.

- 1 Plate BIOBALL® (no defrosting required)
- 2 Rehydrate BIOBALL®
- 3 Spread, dry, and incubate
- 4 Count colonies
- 5 UV confirmation



ACCURATE



PRECISE



EFFICIENT



CONSISTENT



FROZEN



READY TO USE

**BIOBALL® LUMINATE 2.0 is your best ally to avoid the risks of releasing false positives and to advantageously replace your collection of pathogenic microorganisms from the laboratory.**

Speak to your local BIOMÉRIEUX representative for more details and availabilities.

BIOBALL® LUMINATE 2.0 is a range of genetically modified microorganisms (GMMs) and may need to comply with special regulatory requirements for a laboratory contained use in your country (e.g., European directive 2009/41/EC completed by national regulation). Refer to your local competent authority to declare or obtain an agreement before use.

**Support is readily available to assist you with your BIOMÉRIEUX methods verification and positive control procedures and GMM agreement requests.**

*BIOBALL® LUMINATE 2.0 are Certified Reference Materials (ISO 17034)*