BIOMÉRIEUX

BIOBALL® LUMINATE 2.0

The bright choice to control the risk of cross-contamination.

PIONEERING DIAGNOSTICS

Precision, accuracy, and innovation supporting food safety.

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

ACCURATE	Patented technology delivers unprecedented accuracy
PRECISE	Supplies greater precision with a reliable number of microorganisms per ball
EFFICIENT	Minimizes risk of failed QC due to variability of inoculum
FROZEN	No need to add a stress protocol for “worse case” quality control
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 microbiological quality controls more accurate, secure and relevant than ever.

INTRODUCING BIOBALL® LUMINATE 2.0 RANGE SPECIFICALLY DESIGNED FOR POSITIVE 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 *
- Method validation and verification (ISO 16140-3) *
- Performance testing of culture media
- 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	*Salmonella* Typhimurium	NCTC 12023	WDCM 00031
423939	*Escherichia coli* O157:H7	NCTC 12900	WDCM00014
423940	*Cronobacter sakazakii*	NCTC 11467	WDCM 00214
423941	*Listeria monocytogenes* 4b	NCTC 10527	WDCM 00021
423942	*Listeria innocua*	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.

HIGHLY STABLE FLUORESCENCE AND ADAPTED FORMAT REDUCES THE HANDLING OF PATHOGENIC STRAINS IN THE LABORATORY

- Each microorganism is individually selected and dispensed to maximize recovery rate
- Easily distinguish 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.

FOUR SIMPLE STEPS & MINIMAL PREP TIME FOR CLASSICAL ENUMERATION QC.

1. Plate
2. Rehydrate
3. Spread, dry, and incubate
4. Enumerate

ACCURATE

PRECISE

EFFICIENT

CONSISTENT

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.

CRM accreditation ISO 17034 (in progress)

bioMérieux SA • F-69280 • Marcy l'Etoile • France • Phone: (+33) 04 78 87 20 00 • Fax: (+33) 04 78 87 20 90
www.biomerieux-industry.com