

BioBall™

What is BioBall

BioBall® is a small water soluble ball containing a precise number of micro-organisms delivering unprecedented accuracy for Quantitative Microbiological Quality Control.

Over 25 individual strains are available in BioBall with application in the pharmaceutical, food and water testing industries.

Pharmaceutical & Cosmetic applications

Pharmaceutical and cosmetic preparations often require antimicrobial activity to prevent microbial proliferation or to limit the effects of contamination. The Pharmacopoeias require testing of these products for the efficacy of antimicrobial preservation (e.g. USP 51, EP 5.1.3, JP19). Preparing consistent *inocula* for these tests can be laborious and is often unreliable, necessitating time consuming repeat assays.

BioBall MultiShot 10E8 is ideal for this application and simplifies preparation and provides a precise *inoculum*.

BioBall™ MultiShot-10E8

Designed to provide 10 precise inoculations

- Each BioBall MultiShot 10E8 has a batch mean between 0.7 and 1.5×10^8 cfu
- Standard deviation is less than or equal to 20% of the batch mean
- When re-hydrated with 1.1 mL of re-hydration fluid it provides 10 x 100µL doses of 10^7 cfu
- 2 hour stability when re-hydrated with BioBall Re-Hydration fluid and stored at 2 to 8°C
- Each 100 µL aliquot can be used to inoculate for example 20 mL of product, resulting in the required final concentration of $10^5 - 10^6$ cfu/mL product

3 easy steps to prepare BioBall MultiShot 10E8 for an Antimicrobial Effectiveness Test



1. Tip the BioBall into BioBall Re-Hydration Fluid, replace the cap, wait 30 seconds



2. Vortex 5 seconds



3. Draw 100 µL aliquot

BioBall MultiShot 10E8 Advantages over serial dilution

- Far less preparation time and fewer steps
- No quality issues with difficult micro-organisms such as *Pseudomonas aeruginosa*
- Greater precision and reliability with a known number of cfu
- Longer shelf life after re-hydration – 2 hours
- Consistent number of cfu batch to batch
- Reduces risk of “failed QC” due to variability of the *inoculum*

BioBall Strains for Pharmaceutical QC

Organism	BioBall Strain	Equivalent ATCC Strain	Cell or Spore	Product Code
<i>Aspergillus brasiliensis (niger)</i>	NCPF 2275	16404	Spore	410106
<i>Candida albicans</i>	NCPF 3179	10231	Cell	56145
<i>Escherichia coli</i>	NCTC 12923	8739	Cell	56146
<i>Pseudomonas aeruginosa</i>	NCTC 12924	9027	Cell	56147
<i>Staphylococcus aureus</i>	NCTC 10788	6538	Cell	56148
<i>Re-Hydration Fluid</i>	NA	NA	NA	56021

Strains sourced from NCTC & NCPF. ATCC is a trade mark of American Type Culture Collection. NCTC & NCPF are used, pending and/or registered trademark belonging to Health Protection Agency.

Packaging

BioBall® MultiShot 10E8 is supplied in boxes of 10 vials, with one BioBall in each vial.
BioBall Re-Hydration Fluid – 20 x 1.1mL tubes per box.

Further Information

For further information on BioBall and the full range of bioMérieux products for the pharmaceutical industry, please contact your local bioMérieux office, bioMérieux distributor or visit www.bioball.com



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