



**BIOBALL** contains a precise number of microorganisms in a water soluble ball delivering unprecedented accuracy for Quantitative Microbiological Quality Control. **BIOBALL** is a Certified Reference Material manufactured under accreditation to ISO 17034:2016.

## BIOBALL™

SingleShot



**SingleShot** - mean of between 28 and 33 cfu with a standard deviation of 3 cfu or less (unless otherwise stated).

Reference 20 vials/ 20 tests	Reference 10 vials/ 10 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture <sup>^</sup>
56022	N/A	<i>Aspergillus brasiliensis</i> ***	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56023	N/A	<i>Bacillus cereus</i>	NCTC 7464	ATCC10876, NCIMB8579, NRRL569	Spore	2 Years
56024	N/A	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	ATCC6633, CIP52.62, NCIMB8054, NBRC3134	Spore	2 Years
56068	N/A	Blank BIOBALL (containing no microorganisms)	N/A		N/A	3 Years
N/A	414301	<i>Burkholderia cepacia</i> *	NCTC 10743	ATCC25416, DSM7288, CIP80.24	Cell	1 Year
56026	N/A	<i>Candida albicans</i> *	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56027	N/A	<i>Citrobacter freundii</i> **	NCTC 9750	ATCC8090, DSM30039, NBRC12681, CIP57.32	Cell	1 Year
56028	N/A	<i>Clostridium perfringens</i> *	NCTC 8798		Spore	2 Years
56029	N/A	<i>Clostridium sporogenes</i>	NCTC 12935	ATCC11947, NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	2 Years
421876	N/A	<i>Cutibacterium acnes</i> *** (Previously <i>Propionibacterium acnes</i> )	DSM 1897	ATCC 6919, CIP 53.117, JCM 6425, KCTC 3314, NCTC 737	Cell	2 Years
56030	N/A	<i>Enterobacter aerogenes</i>	NCTC 10006	ATCC13048, DSM30053, CDC819-56	Cell	2 Years
56031	N/A	<i>Enterococcus faecalis</i>	NCTC 12697	ATCC29212, WDCM00087	Cell	2 Years
56032	N/A	<i>Enterococcus faecalis</i>	NCTC 775	ATCC19433, DSM20478, WDCM00009	Cell	2 Years
56035	N/A	<i>Escherichia coli</i> *	NCTC 12241	ATCC25922, DSM1103, NCIMB12210, WDCM00013	Cell	2 Years
56034	N/A	<i>Escherichia coli</i>	NCTC 12923	ATCC 8739, NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
56033	N/A	<i>Escherichia coli</i>	NCTC 9001	ATCC11775, DSM30083, CIP54.8, WDCM00090	Cell	2 Years
412690	N/A	<i>Kocuria rhizophila</i> ***	NCTC 8340	ATCC9341	Cell	2 Years
56038	N/A	<i>Listeria innocua</i>	NCTC 11288	ATCC33090, DSM20649, WDCM00017	Cell	2 Years
56039	N/A	<i>Listeria monocytogenes</i>	NCTC 11994	WDCM00019	Cell	2 Years
423233	N/A	<i>Methylobacterium extorquens</i> *****	NBRC 15911		Starved Cell <sup>^^</sup>	2 Years
56040	N/A	<i>Pseudomonas aeruginosa</i> *	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56041	N/A	<i>Salmonella abaeetuba</i>	NCTC 8244	CDC4905-51	Cell	2 Years
56042	N/A	<i>Salmonella abony</i>	ACM 5080	NCTC 6017, NBRC100797, CIP80.39, DSM4224, WDCM00029	Cell	2 Years
56043	N/A	<i>Salmonella salford</i> ****	IMVS 1710		Cell	2 Years
56044	N/A	<i>Salmonella typhimurium</i>	NCTC 12023	DSM19587, NCIMB13284, WDCM00031	Cell	2 Years
56045	N/A	<i>Staphylococcus aureus</i> ***	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years
56092	N/A	<i>Staphylococcus epidermidis</i> **	NCTC 6513		Cell	2 Years
56046	N/A	<i>Streptococcus pyogenes</i>	NCTC 12696	ATCC19615, CIP104226	Cell	2 Years

<sup>^</sup>All BIOBALL strains and Re-Hydration Fluid products are shipped with a minimum of 6 months shelf life remaining.

<sup>^^</sup>Starvation is performed in sterile purified water at 22 °C for 3 days following the Japanese Pharmacopoeia methodology (reference JP G8 Water 4.4.2 Media Growth Promotion Test).

\*Standard deviation <3.5, \*\* Standard deviation < 4, \*\*\* Standard deviation <4.5, \*\*\*\* Mean of between 40 and 60 cfu with a standard deviation of 7 cfu or less, \*\*\*\*\* Mean of between 67 and 83 cfu with a standard deviation of ≤ 15%.

ATCC is a registered trademark of American Type Culture Collection



# BIOBALL™

MultiShot—550



MultiShot 550 - mean of between 500 and 600 cfu with a standard deviation ≤ 10% of the mean

Reference 20 vials / 200 tests	Reference 10 vials / 100 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture <sup>^</sup>
56011	56001	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56012	56002	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	ATCC6633, CIP52.62, NCIMB8054, NBRC3134	Spore	2 Years
# Ask for details		<i>Burkholderia cenocepacia</i>	NCTC 13227	ATCC BAA-245, LMG 16656	Cell	1 Year
423504	416589	<i>Burkholderia cepacia</i> ##	NCTC 10743	ATCC25416, DSM7288, CIP80.24	Cell	2 Years
# Ask for details		<i>Burkholderia multivorans</i>	NCTC 13007	ATCC BAA-247, LMG13010, CCUG34080, CIP105495, DSM13243	Cell	1 Year
56013	56003	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56014	56004	<i>Clostridium sporogenes</i>	NCTC 12935	ATCC11947, NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	2 Years
N/A	416600	<i>Cutibacterium acnes</i> *** (Previously <i>Propionibacterium acnes</i> )	DSM 1897	ATCC 6919, CIP 53.117, JCM 6425, KCTC 3314, NCTC 737	Cell	2 Years
56015	56005	<i>Enterococcus faecalis</i>	NCTC 12697	ATCC29212, WDCM00087	Cell	2 Years
56016	56006	<i>Escherichia coli</i>	NCTC 12923	ATCC 8739, NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
56017	56007	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56018	56008	<i>Salmonella abony</i>	ACM 5080	NCTC 6017, NBRC100797, CIP80.39, DSM4224, WDCM00029	Cell	2 Years
56019	56009	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years
56021	N/A	Re-Hydration Fluid				5 Years
410386	N/A	14 Day Re-Hydration Fluid				2 Years
417843	N/A	Alternative Re-Hydration Fluid				1 Year

# - Speak to your local representative for product details including ref code, specifications and availability. Product is new and may not be under NATA accreditation as of yet.

# BIOBALL™

Luminate

Reference 20 vials	Organism	Colony Forming Units (CFU)	Cell Type	Shelf life from date of manufacture <sup>^</sup>
422190	<i>Salmonella typhimurium</i>	30	Cell	2 Years
56057	<i>Listeria monocytogenes 4b</i>	30	Cell	1 Year

\*BIOBALL Luminate is a Genetically Modified Organism (GMO) and may need special regulatory requirements for use in your region. Please check with your local bioMérieux representative if this product is available in your region.

<sup>^</sup>All BIOBALL strains and Re-Hydration Fluid products are shipped with a minimum of 6 months shelf life remaining.

## Mean of between 500 and 600 cfu with a standard deviation ≤ 15% of the mean

ATCC is a registered trademark of American Type Culture Collection

\*BIOBALL Luminate is not a "Certified Reference Material"





## BIOBALL™

MultiShot—10E8



MultiShot 10E8 - mean of between 0.7 and 1.5 x 10<sup>8</sup> with a standard deviation of ≤ 20% of the mean.

Reference 10 vials / 100 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture <sup>^</sup>
410106	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
423596 #	<i>Bacillus subtilis</i>	NBRC 13722	ATCC 19659	Spore	2 years
418228	<i>Burkholderia cepacia</i>	NCTC 10743	ATCC25416, DSM7288, CIP80.24	Cell	1 Year
56145	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56146	<i>Escherichia coli</i>	NCTC 12923	ATCC 8739, NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
56147	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56148	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years
56021	Re-Hydration Fluid				5 Years

# - Speak to your local representative for product details including ref code, specifications and availability. Product is new and may not be under NATA accreditation as of yet.

## BIOBALL™

HighDose—10K



HighDose 10K - mean of between 8,000 and 12,000 cfu with a standard deviation of ≤ 15% of the mean.

Reference 20 vials	Reference 10 vials	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture <sup>^</sup>
56049	413776	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56143	413777	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	ATCC6633, CIP52.62, NCIMB8054, NBRC3134	Spore	2 Years
56050	413778	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56051	413779	<i>Clostridium perfringens</i>	NCTC 8798		Spore	2 Years
56052	56158	<i>Enterobacter aerogenes</i>	NCTC 10006	ATCC13048, DSM30053, CDC819-56	Cell	2 Years
56053	56160	<i>Escherichia coli</i>	NCTC 9001	ATCC11775, DSM30083, CIP54.8, WDCM00090	Cell	2 Years
56054	N/A	<i>Lactobacillus fermentum</i> ****	NCIMB 6991	ATCC 9338	Cell	2 Years
56144	413831	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56055	56159	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years

\*\*\*\*Mean of between 7,000 and 13,000 with a standard deviation of ≤ 20% of the mean

Strains sourced from NCTC, NCPF, IMVS, ACM, NBRC and DSMZ. NCTC is a trademark of the Public Health England  
ATCC is a registered trademark of American Type Culture Collection



## BIOBALL™

Mixed Kit Configurations



### BIOBALL Mixed kit for Growth Promotion Testing (GPT)

SingleShot mixed kit - Reference: 412541

MultiShot 550 mixed kit - Reference: 412540

Quantity of vials	Organism	BIOBALL strain	Corresponding Strains
2	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053
2	<i>Bacillus subtilis</i>	NCTC 10400	ATCC6633, CIP52.62, NCIMB8054, NBRC3134
2	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054
2	<i>Escherichia coli</i>	NCTC 12923	ATCC8739, NCIMB8545, CIP53.126, NBRC3972, WDCM00012
2	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026
2	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032

### BIOBALL Mixed kit for Sterility Assurance Testing

SingleShot mixed kit - Reference: 412646

MultiShot 550 mixed kit - Reference: 412647

Quantity of vials	Organism	BIOBALL strain	Corresponding Strains
2	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053
2	<i>Bacillus subtilis</i>	NCTC 10400	ATCC6633, CIP52.62, NCIMB8054, NBRC3134
2	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054
2	<i>Clostridium sporogenes</i>	NCTC 12935	ATCC11947, NBRC14293, NCIMB12343, CIP100651, DSM1446
2	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026
2	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032

### BIOBALL Mixed kit for Antimicrobial Effectiveness Testing

MultiShot 10E8 mixed kit - Reference: 56150

Quantity of vials	Organism	BIOBALL strain	Corresponding Strains
2	<i>Aspergillus brasiliensis</i>	NCPF 2275	ATCC16404, CIP1431.83, IMI149007, NBRC9455, WDCM00053
2	<i>Candida albicans</i>	NCPF 3179	ATCC10231, CIP48.72, NBRC1594, WDCM00054
2	<i>Escherichia coli</i>	NCTC 12923	ATCC8739, NCIMB8545, CIP53.126, NBRC3972, WDCM00012
2	<i>Pseudomonas aeruginosa</i>	NCTC 12924	ATCC9027, NCIMB8626, CIP82.118, NBRC13275, WDCM00026
2	<i>Staphylococcus aureus</i>	NCTC 10788	ATCC6538, CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032

