



**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	ATCC11437, NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	2 Years
421876	N/A	<i>Cutibacterium acnes</i> *** (Previously <i>Propionibacterium acnes</i> )	DSM 1897	ATCC6919, CIP53.117, JCM6425, KCTC3314, NCTC737	Cell	2 Years
56030	N/A	<i>Klebsiella aerogenes</i> (Previously <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	ATCC8739, 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, DSM15675	Cell	2 Years
423233	N/A	<i>Methylobacterium extorquens</i> ****	NBRC 15911	ATCC BAA-2500	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	NCTC6017, 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, LMG16656	Cell	1 Year
423504	416589	<i>Burkholderia cepacia</i> <sup>##</sup>	NCTC 10743	ATCC25416, DSM7288, CIP80.24	Cell	2 Years
N/A	423581	<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	ATCC11437, NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	2 Years
N/A	416600	<i>Cutibacterium acnes</i> (Previously <i>Propionibacterium acnes</i> )	DSM 1897	ATCC6919, CIP53.117, JCM6425, KCTC3314, NCTC737	Cell	2 Years
56015	56005	<i>Enterococcus faecalis</i>	NCTC 12697	ATCC29212, WDCM00087	Cell	2 Years
56016	56006	<i>Escherichia coli</i>	NCTC 12923	ATCC8739, 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	NCTC8017, 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

## 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	2 Years

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. BIOBALL Luminate is not a "Certified Reference Material".

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

<sup>#</sup> Speak to your local representative for product details including ref code, specifications and availability. Product is not under NATA accreditation as of yet and is available as interim batches.

<sup>##</sup> 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™**  
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	ATCC19659	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	ATCC8739, 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

**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>Klebsiella aerogenes</i> (Previously <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> <sup>#</sup>	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

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

<sup>#</sup>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	ATCC11437, 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

This document is not legally binding. bioMérieux reserves the right to modify specifications without notice/bioMérieux, the blue logo, BTF and BIOBALL® are used, pending, and/or registered trademarks belonging to bioMérieux SA, one of its subsidiaries or companies. bioMérieux RCS Lyon 673 620 399 - BTF AEN 22 086 488 084.

