



BIOBALL contains a precise number of microorganisms in a water soluble ball delivering unprecedented accuracy for Quantitative Microbiological Quality Control.

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

MultiShot 550 - mean of between 500 and 600 cfu with a standard deviation ≤ 10% of the mean (unless otherwise stated).

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

MultiShot 10E8 - mean of between 0.7 and 1.5 x 10⁸ with a standard deviation of ≤ 20% of the mean.

BIOBALL is a Reference Material manufactured under accreditation to ISO Guide 34.

BIOBALL™

SingleShot

Reference 20 vials/ 20 tests	Reference 10 vials/ 10 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture [^]
56022	N/A	<i>Aspergillus brasiliensis</i> ***	NCPF 2275	CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56023	N/A	<i>Bacillus cereus</i>	NCTC 7464	NCIMB8579, NRRL569	Spore	2 Years
56024	N/A	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	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	DSM7288	Cell	1 Year
423232	419829 ^{^^^}	<i>Burkholderia cepacia</i> *****	NCTC 10743	DSM7288	Starved Cell ^{^^}	2 Years
56026	N/A	<i>Candida albicans</i> *	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56027	N/A	<i>Citrobacter freundii</i> **	NCTC 9750	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	NBRC14283, NCIMB12343, CIP100651, DSM1448	Spore	2 Years
56030	N/A	<i>Enterobacter aerogenes</i>	NCTC 10006	DSM30053, CDC819-56	Cell	2 Years
56031	N/A	<i>Enterococcus faecalis</i>	NCTC 12697	WDCM00087	Cell	2 Years
56032	N/A	<i>Enterococcus faecalis</i>	NCTC 775	DSM20478, WDCM00009	Cell	2 Years
56035	N/A	<i>Escherichia coli</i> *	NCTC 12241	DSM1103, NCIMB12210, WDCM00013	Cell	2 Years
56034	N/A	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
56033	N/A	<i>Escherichia coli</i>	NCTC 9001	DSM30083, CIP54.8, WDCM00090	Cell	2 Years
412690	N/A	<i>Kocuria rhizophila</i> ***	NCTC 8340		Cell	2 Years
56038	N/A	<i>Listeria innocua</i>	NCTC 11288	DSM20649, WDCM00017	Cell	2 Years
56039	N/A	<i>Listeria monocytogenes</i>	NCTC 11994	WDCM00019	Cell	2 Years
423233	418118 ^{^^^}	<i>Methylobacterium extorquens</i> *****	NBRC 15911		Starved Cell ^{^^}	2 Years
421876	N/A	<i>Propionibacterium acnes</i> ***	DSM 1897	CIP 53.117, DSM 1897, JCM 6425, KCTC 3314, NCTC 737	Cell	2 Years
56040	N/A	<i>Pseudomonas aeruginosa</i> *	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56041	N/A	<i>Salmonella abaeetetuba</i>	NCTC 8244	CDC4905-51	Cell	2 Years
56042	N/A	<i>Salmonella enterica, subsp. enterica, serotype abony</i>	ACM 5080	NCTC 8017, 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 enterica subsp. enterica, serovtype typhimurium</i>	NCTC 12023	DSM19587, NCIMB13284, WDCM00031	Cell	2 Years
56045	N/A	<i>Staphylococcus aureus</i> ***	NCTC 10788	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	CIP104226	Cell	2 Years

[^]All BIOBALL strains and Re-Hydration Fluid products are shipped with a minimum of 6 months shelf life remaining.

^{^^}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).

^{^^^} 10 Pack to be discontinued during 2018

*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%.



BIOBALL™

MultiShot—550

Reference 20 vials / 200 tests	Reference 10 vials / 100 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture [^]
56011	56001	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56012	56002	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134	Spore	2 Years
N/A	416589	<i>Burkholderia cepacia</i> #	NCTC 10743	DSM7288	Cell	1 Year
56013	56003	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56014	56004	<i>Clostridium sporogenes</i>	NCTC 12935	NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	2 Years
56015	56005	<i>Enterococcus faecalis</i>	NCTC 12697	WDCM00087	Cell	2 Years
56016	56006	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
N/A	416600	<i>Propionibacterium acnes</i>	DSM 1897	CIP 53.117; DSM 1897; JCM 6425; KCTC 3314; NCTC 737	Cell	2 Years
56017	56007	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56018	56008	<i>Salmonella enterica, subsp. enterica, serotype abony</i>	ACM 5080	NCTC 6017, NBRC100797, CIP80.39, DSM4224, WDCM00029	Cell	2 Years
56019	56009	<i>Staphylococcus aureus</i>	NCTC 10788	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

BIOBALL™

HighDose—10K

Reference 20 vials	Reference 10 vials	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of manufacture [^]
56049	413776	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56143	413777	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134	Spore	2 Years
56050	413778	<i>Candida albicans</i>	NCPF 3179	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	DSM30053, CDC819-56	Cell	2 Years
56053	56160	<i>Escherichia coli</i>	NCTC 9001	DSM30083, CIP54.8, WDCM00090	Cell	2 Years
56054	N/A	<i>Lactobacillus fermentum</i> ****	NCIMB 6991		Cell	2 Years
56144	413831	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56055	56159	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years

BIOBALL™

MultiShot—10E8

Reference 10 vials / 100 tests	Organism	BIOBALL Strain	Corresponding Strains	Cell Type	Shelf life from date of
410106	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IMI149007, NBRC9455, WDCM00053	Spore	2 Years
56145	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	2 Years
56146	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	2 Years
56147	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	2 Years
56148	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	2 Years
418228	<i>Burkholderia cepacia</i>	NCTC 10743	DSM7288	Cell	1 Year
56021	Re-Hydration Fluid				5 Years
416721	<i>Bacillus subtilis</i> ##	ATCC® 19659™	ATCC Licensed Derivative	Spore	2 years

[^]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 Licensed Derivative Emblem for products derived from ATCC® cultures.”

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



BIOBALL™

Luminate

Reference 20 vials	Organism	Colony Forming Units (CFU)	Cell Type	Shelf life from date of manufacture [^]
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.

BIOBALL Mixed Kit Configurations
BIOBALL SingleShot and BIOBALL MultiShot 550 mixed kit for Growth Promotion Testing
 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	CIP1431.83, IMI149007, NBRC9455, WDCM00053
2	<i>Bacillus subtilis</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134
2	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054
2	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012
2	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026
2	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032

BIOBALL SingleShot and BIOBALL MultiShot 550 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	CIP1431.83, IMI149007, NBRC9455, WDCM00053
2	<i>Bacillus subtilis</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134
2	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054
2	<i>Clostridium sporogenes</i>	NCTC 12935	NBRC14293, NCIMB12343, CIP100651, DSM1446
2	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026
2	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032

BIOBALL MultiShot 10E8 mixed kit for Antimicrobial Effectiveness Testing

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

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

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