

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 \leq 10% of the mean (unless otherwise stated).

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

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

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



Reference 20 vials	Reference 10 vials	Organism	BioBall Strain	Corresponding Strain(s)	Cell Type	Number of tests 20 vials	Number of tests 10 vials	Shelf life from date of manufacture [^]
56022	413842	<i>Aspergillus brasiliensis</i> ***	NCPF 2275	CIP431-83, IMH43007, NBRC9455, WDCM00053	Spore	20	10	2 Years
56023	413843	<i>Bacillus cereus</i>	NCTC 7464	NCIMB8579, NRRL569	Spore	20	10	2 Years
56024	413844	<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	NCTC 10400	CIP52-62, NCIMB8054, NBRC5134	Spore	20	10	2 Years
N/A	414301	<i>Burkholderia cepacia</i> *	NCTC 10743	DSM7288	Cell	N/A	10	1 Year
N/A	419829	<i>Burkholderia cepacia</i> *****	NCTC 10743	DSM7288	Starved Cell^^	N/A	10	1 Year
56026	413845	<i>Candida albicans</i> *	NCPF 3179	CIP48-72, NBRC1594, WDCM00054	Cell	20	10	2 Years
56027	413846	<i>Citrobacter freundii</i> **	NCTC 9750	DSM30039, NBRC12681, CIP57-32	Cell	20	10	1 Year
56028	413847	<i>Clostridium perfringens</i>	NCTC 8798		Spore	20	10	2 Years
56029	413848	<i>Clostridium sporogenes</i>	NCTC 12935	NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	20	10	2 Years
56030	413849	<i>Enterobacter aerogenes</i>	NCTC 10006	DSM30053, CDC819-56	Cell	20	10	2 Years
56031	413851	<i>Enterococcus faecalis</i>	NCTC 12697	WDCM00087	Cell	20	10	2 Years
56032	413850	<i>Enterococcus faecalis</i>	NCTC 775	DSM20478, WDCM00009	Cell	20	10	2 Years
56035	413834	<i>Escherichia coli</i> *	NCTC 12241	DSM1103, NCIMB12210, WDCM00013	Cell	20	10	2 Years
56034	413833	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53-126, NBRC3972, WDCM00012	Cell	20	10	2 Years
56033	413832	<i>Escherichia coli</i>	NCTC 9001	DSM30083, CIP54-8, WDCM00090	Cell	20	10	2 Years
412690	413835	<i>Kocuria rhizophila</i> ***	NCTC 8340		Cell	20	10	2 Years
56038	413836	<i>Listeria innocua</i>	NCTC 11288	DSM20649, WDCM00017	Cell	20	10	2 Years
56039	413837	<i>Listeria monocytogenes</i>	NCTC 11994	WDCM00019	Cell	20	10	2 Years
N/A	418118	<i>Methylobacterium extorquens</i> *****	NBRC 15911		Starved Cell^^	N/A	10	1 Year
N/A	415159	<i>Propionibacterium acnes</i> ***	DSM 1897	CIP 53-117; DSM 1897; JCM 64252; KCTC 3314; NCTC 737	Cell	N/A	10	1 Year
56040	413839	<i>Pseudomonas aeruginosa</i> *	NCTC 12924	NCIMB8626, CIP82-118, NBRC13275, WDCM00026	Cell	20	10	2 Years
56041	413840	<i>Salmonella abaeetetuba</i>	NCTC 8244	CDC4905-51	Cell	20	10	2 Years
56042	413841	<i>Salmonella enterica</i> , subsp. <i>enterica</i> , serotype <i>abony</i>	ACM 5080	NCTC 6017, NBRC100797, CIP80-39, DSM4224, WDCM00029	Cell	20	10	2 Years
56043	413774	<i>Salmonella salford</i> ****	IMVS 1710		Cell	20	10	2 Years
56044	413775	<i>Salmonella enterica</i> subsp. <i>enterica</i> , serotype <i>typhimurium</i>	NCTC 12023	DSM19587, NCIMB13284, WDCM00031	Cell	20	10	2 Years
56045	413773	<i>Staphylococcus aureus</i> ***	NCTC 10788	CIP4-83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	20	10	2 Years
56092	413809	<i>Staphylococcus epidermidis</i> **	NCTC 6513		Cell	20	10	2 Years
56046	413820	<i>Streptococcus pyogenes</i>	NCTC 12696	CIP104226	Cell	20	10	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).

*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 \leq 15%.

BioBall™

MultiShot - 550

Reference 20 vials	Reference 10 vials	Organism	BioBall Strain	Corresponding Strain(s)	Cell Type	Number of tests 20 vials	Number of tests 10 vials	Shelf life from date of manufacture [^]
56011	56001	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IM149007, NBRC9455, WDCM00053	Spore	200	100	2 Years
56012	56002	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134	Spore	200	100	2 Years
N/A	416589	<i>Burkholderia cepacia</i> #	NCTC 10743	DSM7288	Cell	N/A	100	1 Year
56013	56003	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	200	100	2 Years
56014	56004	<i>Clostridium sporogenes</i>	NCTC 12935	NBRC14293, NCIMB12343, CIP100651, DSM1446	Spore	200	100	2 Years
56015	56005	<i>Enterococcus faecalis</i>	NCTC 12697	WDCM00087	Cell	200	100	2 Years
56016	56006	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	200	100	2 Years
N/A	416600	<i>Propionibacterium acnes</i>	DSM 1897	CIP 53.117; DSM 1897; JCM 6425; KCTC 3314; NCTC 737	Cell	N/A	100	1 Year
56017	56007	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	200	100	2 Years
56018	56008	<i>Salmonella enterica, subsp. enterica, serotype abony</i>	ACM 5080	NCTC 6017, NBRC100797, CIP80.39, DSM424, WDCM00029	Cell	200	100	2 Years
56019	56009	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	200	100	2 Years
56021	N/A	Re-Hydration Fluid				200	100	5 Years
410386	N/A	14 Day Re-Hydration Fluid				200	100	2 Years

BioBall™

HighDose - 10K

Reference 20 vials	Reference 10 vials	Organism	BioBall Strain	Corresponding Strain(s)	Cell Type	Number of tests 20 vials	Number of tests 10 vials	Shelf life from date of manufacture [^]
56049	413776	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IM149007, NBRC9455, WDCM00053	Spore	20	10	2 Years
56143	413777	<i>Bacillus subtilis subsp. spizizenii</i>	NCTC 10400	CIP52.62, NCIMB8054, NBRC3134	Spore	20	10	2 Years
56050	413778	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	20	10	2 Years
56051	413779	<i>Clostridium perfringens</i>	NCTC 8798		Spore	20	10	2 Years
56052	56158	<i>Enterobacter aerogenes</i>	NCTC 10006	DSM30053, CDC819-56	Cell	20	10	2 Years
56053	56160	<i>Escherichia coli</i>	NCTC 9001	DSM30083, CIP54.8, WDCM00090	Cell	20	10	2 Years
56144	413831	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	20	10	2 Years
56055	56159	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	20	10	2 Years

BioBall™

MultiShot-10E8

Reference 10 vials	Organism	BioBall Strain	Corresponding Strain(s)	Cell Type	Number of vials	Number of tests	Shelf life from date of
410106	<i>Aspergillus brasiliensis</i>	NCPF 2275	CIP1431.83, IM149007, NBRC9455, WDCM00053	Spore	10	100	2 Years
56145	<i>Candida albicans</i>	NCPF 3179	CIP48.72, NBRC1594, WDCM00054	Cell	10	100	2 Years
56146	<i>Escherichia coli</i>	NCTC 12923	NCIMB8545, CIP53.126, NBRC3972, WDCM00012	Cell	10	100	2 Years
56147	<i>Pseudomonas aeruginosa</i>	NCTC 12924	NCIMB8626, CIP82.118, NBRC13275, WDCM00026	Cell	10	100	2 Years
56148	<i>Staphylococcus aureus</i>	NCTC 10788	CIP4.83, NCIMB9518, NBRC13276, FDA209, WDCM00032	Cell	10	100	2 Years
418228	<i>Burkholderia cepacia</i>	NCTC 10743	DSM7288	Cell	10	100	1 Year
56021	Re-Hydration Fluid				20	200	5 Years
416721	<i>Bacillus subtilis</i> ##	ATCC® 19659™		Spore	10	100	2 years



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

Standard deviation ≤15%

“Look for the ATCC Licensed Derivative Emblem for products derived from ATCC® cultures.”

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 Strain(s)
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 Strain(s)
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

Reference: 56150

Quantity of vials	Organism	BioBall strain	Corresponding Strain(s)
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

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