



## Extremely Versatile, Ready-to-Use Quantitative QC Microorganisms for Enumeration Methods



### Highlights:

- Available in concentrations ranging from  $10^2$  to  $10^8$  CFU per pellet
- May be combined for a mixed microorganism population
- Easily manipulated to deliver a wide variety of concentrations
- Ready-to-use format saves time and money
- Refrigerated storage is easy and economical
- Online Certificate of Analysis provides detailed strain information
- Traceability to reference cultures ensures authenticity
- Technical Support experts available for guidance
- Strains are three passages or fewer from the reference culture

### Applications:

- Detection and enumeration methods
- Verification and Validation
- Bioburden determination
- Minimal lethal concentration
- Disinfectant qualification
- Water tests
- Proficiency tests
- Methods requiring a specific CFU range

### Package Details:

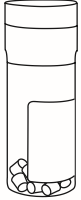
- Vial of ten quantitated lyophilized pellets
- Instructions for Use





## ILLUSTRATED INSTRUCTIONS

1

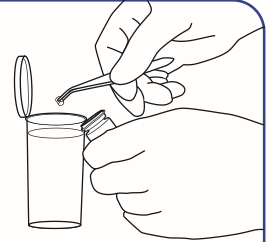


Remove the vial of pellets from refrigerated storage and allow to equilibrate to room temperature.

2

Prior to use, warm hydrating and dilution fluids to 34°C - 38°C. Sterile pH 7.2 phosphate buffer is recommended for hydration of the lyophilized preparation.

3



With sterile forceps, transfer the Epower™ microorganism pellet(s) to the hydrating fluid. Do not remove the desiccant from vial. Immediately stopper and recap the vial and return to 2°C - 8°C.

4

Place the microorganism suspension into a 34°C - 38°C incubator for 30 minutes to assure complete hydration.

5

Immediately following incubation, mix hydrated material until a homogeneous suspension is achieved.



6

Proceed with the challenge according to laboratory protocol. The challenge must be completed with 30 minutes of the hydration process to avoid a change in the challenge suspension concentration.

*Not intended for clinical use*

Catalog Number	Product Description	BSL	Comment
0392E3	Aspergillus brasiliensis derived from ATCC® 16404™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; mold
0392E6	Aspergillus brasiliensis derived from ATCC® 16404™*	1	Quantitative preparations at a concentration of 1.0-9.9E+06 CFU per pellet; mold
0998E3	Bacillus cereus derived from ATCC® 10876™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0486E3	Bacillus subtilis subsp. spizizenii derived from ATCC® 6633™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0486E4	Bacillus subtilis subsp. spizizenii derived from ATCC® 6633™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet
0486E6	Bacillus subtilis subsp. spizizenii derived from ATCC® 6633™*	1	Quantitative preparations at a concentration of 1.0-9.9E+06 CFU per pellet
0488E7	Burkholderia cepacia derived from ATCC® 25416™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
0836E7	Burkholderia cepacia derived from ATCC® 25608™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
0443E3	Candida albicans derived from ATCC® 10231™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; yeast cells
0443E4	Candida albicans derived from ATCC® 10231™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet; yeast cells
0443E7	Candida albicans derived from ATCC® 10231™*	1	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet; yeast cells
0674E3	Clostridium perfringens derived from ATCC® 12919™*	2	Quantitative preparations at a concentration 1.0-9.9E+03 CFU per pellet; export license required for shipping outside U.S.
0487E3	Clostridium sporogenes derived from ATCC® 11437™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0317E3	Clostridium sporogenes derived from ATCC® 19404™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0756E3	Cronobacter muytjensii derived from ATCC® 51329™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0388E8	Enterobacter cloacae subsp. cloacae derived from ATCC® 35030™*	1	Quantitative preparations at a concentration of 1.0-9.9E+08 CFU per pellet
0366E3	Enterococcus faecalis derived from ATCC® 29212™*	2	Quantitative Preparation at a concentration of 1.0-9.9E+03 CFU per pellet
0366E7	Enterococcus faecalis derived from ATCC® 29212™*	2	Quantitative Preparation at a concentration of 1.0-9.9E+07 CFU per pellet
0497E3	Enterococcus faecalis derived from ATCC® 7080™*	2	Quantitative Preparation at a concentration of 1.0-9.9E+03 CFU per pellet
01101E3	Escherichia coli (O103:H11) derived from CDC 06-3008	2	Quantitative preparations at a concentration 1.0-9.9E+03 CFU per pellet; serotype O103:H11; eae positive; stx 1 and/or stx 2 positive; export license required for shipping outside U.S.
01104E3	Escherichia coli (O104:H4) derived from ATCC® BAA-2326™*	2	Quantitative preparations at a concentration 1.0-9.9E+03 CFU per pellet; serotype O104:H4; aggR positive; stx 2 positive; export license required for shipping outside U.S.
01102E3	Escherichia coli (O111:H8) derived from CDC 2010C-3114	2	Quantitative preparations at a concentration 1.0-9.9E+03 CFU per pellet; serotype O111:H8; eae positive; stx 1 and/or stx 2 positive; export license required for shipping outside U.S.



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01097E3	Escherichia coli (O145:NM) derived from CDC 99-3311	2	Quantitative preparations at a concentration 1.0-9.9E+03 CFU per pellet serotype O145:NM; eae positive; stx1 and/or stx 2 positive; export license required for shipping outside U.S.
0617E3	Escherichia coli (O157:H7) derived from ATCC® 35150™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype O157:H7; export license required for shipping outside U.S.
0795E2	Escherichia coli (O157:H7) derived from ATCC® 43888™*	2	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet; serotype O157:H7; does not produce Shiga-Like Toxin I or II
01100E2	Escherichia coli (O26:H11) derived from CDC 03-3014	2	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet; serotype O26:H11; eae positive; stx 1 and/or stx 2 positive; export license required for shipping outside U.S.
01100E3	Escherichia coli (O26:H11) derived from CDC 03-3014	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype O26:H11; eae positive; stx 1 and/or stx 2 positive; export license required for shipping outside U.S.
01098E3	Escherichia coli (O45:H2) derived from CDC 00-3039	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype O45:H2; eae positive; stx 1 and/or stx 2 positive; export license required for shipping outside U.S.
0495E3	Escherichia coli derived from ATCC® 35218™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0791E3	Escherichia coli derived from ATCC® 51813™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0791E4	Escherichia coli derived from ATCC® 51813™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet
0483E3	Escherichia coli derived from ATCC® 8739™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0483E7	Escherichia coli derived from ATCC® 8739™*	1	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
01192E3	Escherichia coli derived from NCTC 13216	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0871E3	Geobacillus stearothermophilus derived from ATCC® 7953™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0306E3	Klebsiella aerogenes derived from ATCC® 13048™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; formerly Enterobacter aerogenes
0684E7	Klebsiella pneumoniae subsp. pneumoniae derived from ATCC® 10031™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet; Methyl Red positive, Voges-Proskauer negative
0688E3	Kocuria rhizophila derived from ATCC® 9341™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0688E4	Kocuria rhizophila derived from ATCC® 9341™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet
0813E3	Lactobacillus fermentum derived from ATCC® 9338™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0149E3	Lactococcus lactis subsp. lactis derived from ATCC® 19435™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0149E3	Lactococcus lactis subsp. lactis derived from ATCC® 19435™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet



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0814E2	Listeria innocua (6a) derived from ATCC® 33090™*	1	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet; serotype 6a
0414E3	Listeria innocua derived from NCTC 11288	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype 6a
0129E3	Listeria monocytogenes derived from ATCC® 13932™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype 4b
0277E3	Listeria monocytogenes derived from ATCC® 19111™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype 1
0687E2	Listeria monocytogenes derived from ATCC® 19115™*	2	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet; serotype 4b
0687E3	Listeria monocytogenes derived from ATCC® 19115™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; serotype 4b
0254E2	Listeria monocytogenes Cornell University derived from Silliker® SLR2249	2	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet; Act A gene removed
0794E3	Penicillium venetum derived from ATCC® 16025™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; Mold
0693E3	Pseudomonas aeruginosa derived from ATCC® 15442™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; Pyocyanin not produced
0353E3	Pseudomonas aeruginosa derived from ATCC® 27853™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; Microbiologics does not recommend the use of this strain for testing Ceftriaxone using the disk diffusion method - we have found that this strain is displaying resistance to Ceftriaxone using this method
0353E6	Pseudomonas aeruginosa derived from ATCC® 27853™*	2	Quantitative preparations at a concentration of 1.0-9.9E+06 CFU per pellet; Microbiologics does not recommend the use of this strain for testing Ceftriaxone using the disk diffusion method - we have found that this strain is displaying resistance to Ceftriaxone using this method
0484E7	Pseudomonas aeruginosa derived from ATCC® 9027™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
0699E3	Saccharomyces cerevisiae derived from ATCC® 9763™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; yeast cells
0698E3	Saccharomyces kudriavzevii derived from ATCC® 2601™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; formerly Saccharomyces cerevisiae; yeast cells
0817E2	Salmonella enterica subsp. enterica serovar Abaetetuba derived from ATCC® 35640™*	2	Quantitative preparations at a concentration of 1.0-9.9E+02 CFU per pellet
0890E7	Salmonella enterica subsp. enterica serovar Abony derived from NCTC 6017	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet; serovar Abony
0363E3	Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 14028™*	2	Quantitative preparation at a concentration of 1.0-9.9E+03 CFU per pellet
0363E4	Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 14028™*	2	Quantitative preparation at a concentration of 1.0-9.9E+04 CFU per pellet
0421E3	Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 13311™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0421E7	Salmonella enterica subsp. enterica serovar Typhimurium derived from ATCC® 13311™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
0360E3	Staphylococcus aureus subsp. aureus derived from ATCC® 25923™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; CAMP Test control



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## Epower

Catalog Number	Product Description	BSL	Comment
0360E4	Staphylococcus aureus subsp. aureus derived from ATCC® 25923™*	2	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet
0827E3	Staphylococcus aureus subsp. aureus derived from ATCC® 6538P™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0485E3	Staphylococcus aureus subsp. aureus derived from ATCC® 6538™*	2	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0485E7	Staphylococcus aureus subsp. aureus derived from ATCC® 6538™*	2	Quantitative preparations at a concentration of 1.0-9.9E+07 CFU per pellet
0158E4	Staphylococcus aureus subsp. aureus derived from ATCC® 700699™*	2	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet; Methicillin resistant
0371E3	Staphylococcus epidermidis derived from ATCC® 12228™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet
0371E4	Staphylococcus epidermidis derived from ATCC® 12228™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet
0371E8	Staphylococcus epidermidis derived from ATCC® 12228™*	1	Quantitative preparations at a concentration of 1.0-9.9E+08 CFU per pellet
0803E3	Zygosaccharomyces rouxii derived from ATCC® 28253™*	1	Quantitative preparations at a concentration of 1.0-9.9E+03 CFU per pellet; yeast cells
0803E4	Zygosaccharomyces rouxii derived from ATCC® 28253™*	1	Quantitative preparations at a concentration of 1.0-9.9E+04 CFU per pellet; yeast cells



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