

Spore Suspensions

Spore Suspensions are diluted aliquots from our primary spore crop (batch). They are used to directly inoculate (and therefore challenge) a material or solution with a known concentration of spores. US FDA requires medical device and pharmaceutical manufacturers to challenge their products directly with spores prior to approving them for sale. This challenge is intended to determine if the device's carrier material or pharmaceutical's properties (viscosity, salt content, etc.) has any sporicidal or preservative effect that will impact the manufacturer's ability to sterilize the product and to determine instructions on how the user can sterilize the device if reusable.



Suspensions are offered in a 40% ethanol solution or 100% deionized H₂O.

Some hydrophobic materials would cause a drop (0.1ml) to bead on its surface. As this bead dries, the spores would be clumped on top of each other. For these types of materials it would be to your advantage to use the ethanol solution so the spores spread more evenly over the surface. The same is also true when inoculating into a solution, where a water inoculum may not be miscible.

Spore Suspensions are available for the following species in various populations.

- *B. atrophaeus**
- *B. subtilis** (#6633 and des. 5230)
- *G. stearothermophilus** (#7953, 12980, 10149)
- *B. thuringiensis**
- *B. pumilus**
- *B. cereus**
- *B. megaterium**
- *B. coagulans**

*Derived from recognized reference strains as specified within USP, ISO or EN guidelines. These products are not certified as being representative of the reference strain and they should therefore not be used where a reference culture is specified.

Spore Suspensions

Ordering Information

B. atrophaeus Reference #9372

Catalog #	Population (per 0.1ml)
SUS-1-4	Log 4
SUS-1-5	Log 5
SUS-1-6	Log 6
SUS-1-7	Log 7
SUS-1-8	Log 8
SUS-1-9	Log 9

B. subtilis Reference #6633

Catalog #	Population (per 0.1ml)
SUS-1A-4	Log 4
SUS-1A-5	Log 5
SUS-1A-6	Log 6
SUS-1A-7	Log 7
SUS-1A-8	Log 8

B. subtilis Reference #35021 (des. 5230)

Catalog #	Population (per 0.1ml)
SUS-1B-4	Log 4
SUS-1B-5	Log 5
SUS-1B-6	Log 6
SUS-1B-7	Log 7

G. stearothermophilus Reference #7953

Catalog #	Population (per 0.1ml)
SUS-3-4	Log 4
SUS-3-5	Log 5
SUS-3-6	Log 6
SUS-3-7	Log 7

G. stearothermophilus Reference #12980

Catalog #	Population (per 0.1ml)
SUS-3A-4	Log 4
SUS-3A-5	Log 5
SUS-3A-6	Log 6
SUS-3A-7	Log 7

G. stearothermophilus Reference #10149

Catalog #	Population (per 0.1ml)
SUS-3B-4	Log 4
SUS-3B-5	Log 5
SUS-3B-6	Log 6
SUS-3B-7	Log 7

B. thuringiensis Reference #29730

Catalog #	Population (per 0.1ml)
SUS-6-6	Log 6
SUS-6-7	Log 7
SUS-6-8	Log 8
SUS-6-9	Log 9

B. pumilus Reference #27142

Catalog #	Population (per 0.1ml)
SUS-7-4	Log 4
SUS-7-5	Log 5
SUS-7-6	Log 6
SUS-7-7	Log 7
SUS-7-8	Log 8
SUS-7-9	Log 9

B. cereus Reference #11778

Catalog #	Population (per 0.1ml)
SUS-8-6	Log 6
SUS-8-7	Log 7
SUS-8-8	Log 8
SUS-8-9	Log 9

B. megaterium Reference #8245

Catalog #	Population (per 0.1ml)
SUS-9-6	Log 6
SUS-9-7	Log 7
SUS-9-8	Log 8
SUS-9-9	Log 9

B. coagulans Reference #51232

Catalog #	Population (per 0.1ml)
SUS-CG-6	Log 6