

Mesa UniQ[®] Biological Indicators

For Industrial Use

Introduction

Standard Biological Indicators (BIs) are easy to use and are available for industrial or healthcare use; however, some manufacturing situations require a modified or specialty BI to assist in validating the sterilization process. Manufacturers and validation specialists need UniQ tools where spore strips, SCBIs and ampoules are not suitable because of size, packaging or carrier material. In addition to our line of standard BIs, we offer a line of Mesa UniQ BIs to address the specific requirements of the medical device, pharmaceutical, and food & beverage industries.

Woven Cotton Threads: 19 mm x 1.5 mm



Cotton Threads are inoculated with 10^6 *B. atrophaeus* spores and can be wrapped around an item such as the interface of a syringe and plunger to show ethylene oxide penetration and efficacy at that point. Other uses include placement in tubing and lumens. Threads come individually packaged in Tyvek/Mylar pouches but are removed from the packaging for placement in the device.

MicroStrips: 1 mm x 25 mm or 2 mm x 10 mm



MicroStrips are inoculated with either 10^6 *G. stearothermophilus* spores, 10^6 *B. subtilis* "5230" spores, or 10^6 *B. atrophaeus* spores, intended for use in steam and ethylene oxide applications where a regular-sized spore strip is too large. MicroStrips are offered bulk packaged or individually packaged in glassine envelopes. (*B. subtilis* "5230" microstrips are only available in bulk.)

Paper Discs: 6 mm



Paper Discs are inoculated with either 10^5 or 10^6 *G. stearothermophilus* spores or 10^6 *B. atrophaeus* spores, for steam and ethylene oxide applications where a spore strip is too large. The discs are offered bulk packaged. (Only the 10^6 *G. stearothermophilus* discs are also available individually packaged in glassine envelopes.)

Stainless Steel Discs: 7 mm



The Stainless Steel Disc is inoculated with 10^3 or 10^6 *B. pumilus* spores and packaged in a clear plastic pouch. The clear plastic package will not impede UV light and provides protection from post-process contamination.

DriAmp[®] Culturing Set: BI ampoule + culture media tube



DriAmp Biological Indicator Culturing Sets consist of 1 ml glass ampoules containing silica sand inoculated with 10^6 *B. atrophaeus* spores and tubes of Releasat[®] Red culture medium. Each 16 x 100 mm tube contains 3.6 mL of medium. These sets offer the advantage of a 72-hour reduced incubation time and are appropriate for either high-temperature direct air exposure or submersion in oils and other non-water-based solutions where traditional paper strip indicators are difficult to use.

ProLine: (Tubing Validation PCD)



ProLine Process Challenge Device (PCD) contains a paper disc inoculated with 10^6 *G. stearothermophilus* spores. The spore disc is packaged in a glassine envelope and is located in the center of the ProLine housing. This biological Indicator system is designed for use in the validation or monitoring of steam sterilization cycles of tubing ranging from 1/8" to 5/8". It allows the user to place the BI at the center of the length of the tubing which is the most difficult place for the sterilant to penetrate.

Spore Suspensions: 10 ml vial



Spore suspensions are calibrated suspensions of bacterial spores appropriate for growth promotion, direct inoculation of products, or preparing custom biological indicators for monitoring Steam, Ethylene Oxide, Dry Heat, Hydrogen Peroxide, Radiation, and other industrial sterilization processes. Each vial contains 10 ml of suspension. The suspending liquid is either 20%, 29% or 40% ethanol or purified water.

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Description	Reorder #	Process	Species	Population	Size	Packaging
Woven Cotton Threads	1-6100TT	ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	19 mm x 1.5 mm	100 threads in Tyvek/Mylar pouches
	S1X25/6	steam	<i>G. stearothermophilus</i> 7953	10 ⁶	1 mm x 25 mm	100 MicroStrips bulk packaged
MicroStrip	S1X25/6G	steam	<i>G. stearothermophilus</i> 7953	10 ⁶	1 mm x 25 mm	100 MicroStrips in glassine pouches
	S2X10/6	steam	<i>G. stearothermophilus</i> 7953	10 ⁶	2 mm x 10 mm	100 MicroStrips bulk packaged
	S2X10/6G	steam	<i>G. stearothermophilus</i> 7953	10 ⁶	2 mm x 10 mm	100 MicroStrips in glassine pouches
	A1X25/6	ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	1 mm x 25 mm	100 MicroStrips bulk packaged
	A1X25/6G	ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	1 mm x 25 mm	100 MicroStrips in glassine pouches
	A2X10/6	ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	2 mm x 10 mm	100 MicroStrips bulk packaged
	A2X10/6G	ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	2 mm x 10 mm	100 MicroStrips in glassine pouches
	SU1X25	low temperature steam	<i>B. subtilis</i> "5230" 35021	10 ⁶	1 mm x 25 mm	100 MicroStrips bulk packaged
	SU2X10	low temperature steam	<i>B. subtilis</i> "5230" 35021	10 ⁶	2 mm x 10 mm	100 MicroStrips bulk packaged
	Paper Discs	DS6R/5	steam	<i>G. stearothermophilus</i> 7953	10 ⁵	6 mm diameter
DS6R/6		steam	<i>G. stearothermophilus</i> 7953	10 ⁶	6 mm diameter	100 paper discs bulk packaged
DS6R/6G		steam	<i>G. stearothermophilus</i> 7953	10 ⁶	6 mm diameter	100 paper discs in glassine pouches
1-61006MM		ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	6 mm diameter	100 paper discs bulk packaged
1-10006MM		ethylene oxide	<i>B. atropheus</i> 9372	10 ⁶	6 mm diameter	1000 paper discs bulk packaged
Stainless-steel Discs	DPSSC/3	radiation	<i>B. pumilus</i> 27142	10 ³	7 mm diameter	100 SS discs in clear plastic
	DPSS/6C	radiation	<i>B. pumilus</i> 27142	10 ⁶	7 mm diameter	100 SS discs in clear plastic
DriAmp Culturing Set	DH/50	dry heat	<i>B. atropheus</i> 9372	10 ⁶	1 mL ampoule	50 ampoules + 50 media tubes
ProLine	PL-3-6-15	steam	<i>G. stearothermophilus</i> 7953	10 ⁶	Disc: 6 mm Device length: 130mm Device diameter: 50 mm	15