





#### Who We Are?

Temizoda Marketi started its business life in 1995 with İNŞEL Yapı ve Teknik Donatım Sistemleri Ltd. Sti. Specializing in cleanroom consultancy, design, implementation, documentation, and training, İNŞEL aims to meet the needs of personnel working in cleanrooms, sterile areas and critically controlled areas when it aims to provide turnkey services in the projects it implements.

INŞEL, which has started to supply consumables in Cleanrooms, sterile areas and critically controlled areas through its representatives since 2004, has separated this department from its body in time in order not to cause confusion for our valued customers and to provide better service led to creation of Temizoda Marketi Laboratuvar Ürünleri A.Ş.

Today, as Temizoda Marketi, we are always with you, our valued customers, from product selection to training with our professional and experienced staff, while following the technology closely to provide you with the best service in the most accurate way.

#### **Our Aim**

As Temizoda Marketi, we know our valued customers from the very beginning, from the installation of your hygienic area and Cleanrooms, and we know your needs. We are aware of how important it is to use the right material in the right place, and we are always at your side to supply you with the best quality and right products with the most appropriate solutions. We supply the highest technology products for you, and we are with you wherever you need, from training to after-sales user Support.

We know that choosing the right product is never the cheapest or the most expensive, and at this point, we help you with the most optimum benefit options...



As Temizoda Marketi, we try to get to know you first and learn about your business, processes, and needs and offer you the most suitable solutions.

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.









Wide Range









e-Stop

Customized Solution

Solution Proffesional Staff

Correct Produ

ict

Documentation

on After Sale Support

Service Solution

As Temizoda Marketi, we are always happy and proud to assist you with our trained and experienced staff.

We are working to give you the best and highest quality service with our experienced staff dedicated to each department.

Choosing the right product is one of the most important issues in cleanrooms and critically controlled areas.

As Temizoda Marketi, we choose the most accurate and best quality products for your business in line with your demands and goals and recommend them by making them economical.

The materials used in critically controlled areas are as special and important as the areas you work in.

We know that the most suitable product for you is not always the most expensive or the cheapest, but it should be the best quality. In order to offer you the optimum solution, as Temizoda Marketi, we offer you the products you need by diversifying them with alternatives from different brands.

As Temizoda Marketi, we know the importance of the documentation of all materials you use in critically controlled areas, and we provide all documents, certificates, analysis reports, and all necessary documentation for you, that are necessary, during the installation phase, application and validation.

Temizoda Marketi does not only approach you as a product supplier. At the same time, it stands behind the products it sells and does not hesitate to take all necessary actions to eliminate it when you have any problems.

It does not sell products without the full support of the companies it represents. When there is a problem about the products, Temizoda Marketi approaches the issue as if using it himself and ensures that it is resolved as soon as possible. Thus, you will get maximum efficiency from the product you have bought.

As Temizoda Marketi, we would like to help you with all the products you need with our wide product range. Even if the product you need does not appear in our catalog, we try to find the product you are looking for with our partners abroad. Thus, we provide you with one-stop service as sole responsibility.

Temizoda Marketi does not only supply you with products, but also provides training, which is one of the greatest necessities of our time. No matter how accurate the product is in critically controlled areas, incorrect or unconscious use can cause unwanted problems. Upon request, it provides the necessary training for the products you have purchased, either by itself or by the manufacturer.



# ur Representatives



We are working with well-established companies that have proven their quality all over the world in auxiliary products used in clean rooms, sterile areas, laboratories and other critically controlled areas, to provide you with the best and right product.

· Cleanroom Consumables (Wipes, Gloves, Swabs, Mats,...)



IAB Reinraum-Produkte GmbH www.iab-reinraumprodukte.de



Protect2Clean www.protect2clean.com



Al Glove Systems www.alglovesystems.de



· Cleanroom Glovebox Gloves



Pfennig Reinigungstechnik GmbH www.pfennig-reinigungstechnik.com





ABEBA Spezialschuh-Ausstatter GmbH www.abeba.com





Bimos - Interstuhl Büromöbel GmbH



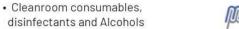
www.bimos.com



· Cleanroom Wipes with highest quality possibble

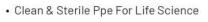


Berkshire Corporation www.berkshire.com





MicronClean Ltd www.micronclean.com





Isofield www.isofield.com



Redditch Medical www.redditchmedical.com



· Cleanroom Goggles

· Cleanroom Filters

· Cleanroom Disinfectants



#### Univet



www.univetsafety.com



**Ipmfilters** www.ipmfilters.com



· Cleanroom Sticky Mats, Papers, Shoes and Glove Liners



Purus İnternational Inc. www.purusint.com



· Cleanest Cleanroom Gloves



Riverstone Resources www.riverstone.com.my



· Cleanroom Garments



Alsico High Tech www.alsicohightech.com



· Cleanroom Mats



Noopli www.noopli.com



· Cleanroom Indicators



True Indicating Products www.trueindicating.com





Cleanroomtape www.cleanroomtape.com

# Our Representatives

# bimos





































#### Cleanroom Garments

- Coveralls (Reusable/Disposable & Sterile/Non-Sterile)
- Coats (Reusable/Disposable & Sterile/Non-Sterile)
- Bonnets (Reusable/Disposable & Sterile/Non-Sterile)
- Hats (Reusable)
- Hoods (Reusable/Disposable & Sterile/Non-Sterile)
- Overshoes (Reusable/Disposable & Sterile/Non-Sterile)
- Over Boots (Reusable/Disposable & Sterile/Non-Sterile)
- Socks (Reusable/Disposable & Sterile/Non-Sterile)
- Masks (Reusable/Disposable & Sterile/Non-Sterile)
- Shoes

#### Cleanroom Gloves

- Sterile Gloves (Latex & Nitrile)
- Non-Sterile Gloves (Latex, Nitrile, Polyethylene, Vinyl)
- Finger Gloves (Latex & Nitrile)
- Knitted Gloves

#### Cleanroom Wipes

- Sterile Wipes
- Dry Wipes
- Pre-Saturated Wipes
- Sponge Wipes

#### > Swabs

## Cleanroom Mats / Floorings

- Sticky Mats
- Permanent Mats

#### Cleanroom Stationary

- Notebooks (Rule, Grid, A4, A5)
- Papers (A3, A4, A5)
- Pens (Sterile & Non-Sterile, IPA Resist.)
- DCR Pads
- Tapes
- Rolls

#### Cleanroom Cleaning Equipment

- Mops (Single use / Re-Usable)
- Mop Systems
- Mop Heads
- Vacuum Cleaners
- Isolators

#### Cleanroom Disinfection Systems

- Disinfection Systems (Wet Dry)
- Disinfectants
- Disinfection Service
- Alcohols

### Cleanroom Goggles

#### Cleanroom Filters

- HVAC Filters
- Hepa Filters
- Water System Filters (RO System)
- 100% Endotoxin Removal Filters
- Cross Flow Filters

#### > Cleanroom Furniture

- Work Benches
- Racks
- Chairs
- Transport Trolleys

#### > Cleanroom Cabinets

- LF Units
- Bio-Safety Cabinets

#### > Air Shower

#### Isolators

#### Biological Indicators





#### Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

#### **Product Description**

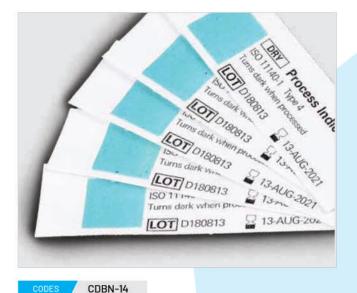
True Indicating Dry Heat and
Depyrogenation Chemical Process
Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- · Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a dry heat or depyrogenation process through color transition from Blue to Dark. The Indicators may be used to monitor dry heat processes at ≥160°C and Depyrogenation processes up to 250°C. The color transition which occurs after dry heat exposure is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers a standard configuration which may be used in either dry heat or Depyrogenation processes; see table below. In addition to the standard configuration, True Indicating will manufacture custom Indicators and labels to meet your needs.

ORDER INFORMATION					
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED	EXPOSED - DEPYROGENATION
CEVG-1	5,000 Dots/Roll	12 mm (1/2")			



#### **Multicritical Process Variable Indicator**

ISO 11140-1 TYPE 4

#### **Product Description**

Type 4 Indicators are designed to react to two or more of the critical process variables. For dry heat, the critical process variables are time and temperature.

True Indicating's Product Code CDBN-14, indicates exposure to a dry heat process at the stated value (SV) of 160°C for 40 minutes.

The Indicator will transition from Blue to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Blue to Dark provides in dication of exposure to a dry heat process where two or more of the critical process variables were met for sterilization.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

ORDER INFORMATION					
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED	
CDBN-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")			





#### **Biological Indicators**

ISO 11140-1 TYPE 5

#### **Product Description**

True Indicating Dry Heat Biological Indicators (BIs) are:

- Compliant with ISO 11138-1 and 11138-4
- Pure high quality Bacillus atrophaeus, Cell Line 9372 Spores
- · Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a dry heat process. The Indicators may be used to monitor processes from 160°C - 180°C for equipment and process validation or routine monitoring. The Indicators are labeled for laboratory or industrial use only.

True Indicating offers standard configurations of BIs and Inoculated Carriers; see tables below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

SPORE STRIPS					
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING		
ST-06DH	10 <sup>6</sup> /strip	6 mm x 30 mm	Glassine Envelope		



#### **Dry Heat Ampule**

#### **Product Description**

True Indicating Dry Heat Biological Indicators (BIs) are:

- Compliance with ISO 11138-1 and 11138-4
- Reduced Incubation Time of 72 Hours when used in Conjunction with True Indicating's Modified Growth Medium
- Distinct color transition of media from Green to Yellow when positive for Growth

The Ampules consist of a hermetically sealed glass ampule which contains a carrier inoculated with Bacillus atrophaeus Cell Line 9372 Spores with a known population and resistance level. The Ampules are designed to be used in conjunction with modified media that transitions from the initial color to yellow in the presence of bacterial growth. The Ampules offer a reduced incubation period of 48 hours and provide assurance of effective sterilization after exposure to a dry heat process. The Ampules are ideal for monitoring liquid sterilization cycles but may also be utilized in dry loads up to 250°C for equipment and process validations and routine monitoring.

The Ampules are labeled for laboratory or industrial use only.

SPORE STRIPS					
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING		
AAD-06	10 <sup>8</sup>	58 mm x 10.6 mm	50 Ampules/Box + 50 Tubes of Modified Media		





#### CODES

UA-06, UA-07 and UA-08

#### Spore Suspensions

#### **Product Description**

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1 and 11138-2
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a dry heat process is required.

Custom population levels and other diluents including Ethanol available upon request.

	SPORE SUSPENSIONS				
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
UA-06	10 <sup>6</sup> /0.1 mL				
UA-07	10 <sup>7</sup> /0.1 mL	10 mL	24 Months		
UA-08	10 <sup>8</sup> /0.1 mL				



#### CODES

GGM-50R / GGM-100

#### **Modified Growth Medium**

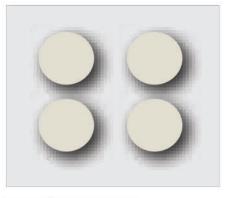
Prepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator. The pH indicator transitions from green to yellow in the presence of Bacillus atrophaeus bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

Modified growth medium offers a reduced incubation period of 48 hours for BIs and Inoculated Carriers of Bacillus atrophaeus when exposed to Ethylene Oxide (EO), dry heat or Vaporized Hydrogen Peroxide (VH2O2) processes.

SPORE SUSPENSIONS					
REF-PRODUCT CODE	TUBE DIMENSIONS	VOLUME	PACKAGING	SHELF LIFE	
GGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Reusable Holding Rack	12 Months	
GGM-100			100 Tubes		









CODES TA-06 / TAB-06

CODES MA-06 / MAB-06

CODES DA-06 / DA3-06

## **Inoculated Carriers**

ISO 11140-1 TYPE 4

#### **Product Description**

True Indicating EO Biological Indicators are:

- Compliant with ISO 11138-1
- Pure high quality Bacillus atrophaeus, Cell Line 9372 Spores
- · Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a dry heat process.

The Indicators may be used to monitor processes from 160°C - 180°C for equipment and process validation or routine monitoring.

The Indicators are labeled for laboratory or industrial use only.

MINI-SPORE STRIPS				
REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING	
MA-06	10 <sup>6</sup> /strip	2 mm x 10 mm	Glassine Envelope	
MAB-06	10 /5111р	2 11111 X 10 111111	Bulk	

	SPORE	DISCS	
REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING
DA-06	10 <sup>6</sup> /disc	6 mm	Bulk
DA3-06	io-/disc	3 mm	Duik

SPORE THREADS				
REF-PRODUCT CODE	VOLUME	DIMENSIONS	PACKAGING	
TA-06	10 <sup>6</sup> /thread	70 mm	Bulk	
TAB-06	10-7 till ead	30 mm	Duik	





Biological Indicators (BIs) SPORE STRIPS 24 Month Shelf Life

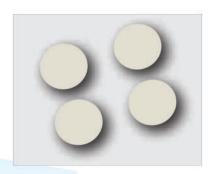
		SPORE STRIPS - 24 Mo	nth Shelf Life   1	00/pack		
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS	
		ST-04	104			
eobacillus tearothermophilus		ST-05	10 <sup>5</sup>		Steam	
Cell Line 7953		ST-06 10 <sup>6</sup>				
	6 x 30 mm strip	STF-06	10 <sup>6</sup>		Formaldehyde	
Bacillus subtilis Cell Line 35021		SB5-06	10 <sup>6</sup>	Glassine	Low Temperature Steam	
		SA-04	104	Envelopes		
Bacillus atrophaeus		SA-05	10 <sup>5</sup>		EO	
Cell Line 9372		SA-06	10 <sup>6</sup>			
		SA-06DH	106		Dry Heat	
		SBP-06	10 <sup>6</sup>		Radiation	
Bacillus pumilus Cell Line 27142		SBP-07	10 <sup>7</sup>			
CON LINE ET ITE		SBP-08	108			



Biological Indicators (BIs)
MINI SPORE STRIPS 24 Month Shelf Life

MINI SPORE STRIPS - 24 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus		MT-06		Glassine Envelopes	Steam
Cell Line 7953  Bacillus atrophaeus Cell Line 9372	2 x 10 mm strip	MTB-06	10 <sup>6</sup>	Bulk	EO/Dry Heat
		MA-06		Glassine Envelopes	
OCH EHIC GO/Z		MAB-06		Bulk	





Biological Indicators (BIs) SPORE DISCS - 24 Month Shelf Life (Paper) | 12 Month Shelf Life

	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
	6 mm - Paper	DT-05	105		Steam
	o IIIIII - Fapei	DT-06		Bulk	
	3 mm - Paper	DT3-06	10 <sup>6</sup>		
Geobacillus	6 mm - Steel	SDTM-06	10 %	Tyvek/Mylar	
tearothermophilus Cell Line 7953		100/pack			
Cell Line 7953	6 mm - Steel	TRI-7953	10 <sup>4</sup> 10 <sup>5</sup> 10 <sup>6</sup> Tyvek		$VH_2O_2$
	50 of each population/pack				
	SDTT-06		Tyvek		
	6 mm - Steel		10 <sup>6</sup>	Tyvek/Mylar	
		SDTM-06	224		
	6 mm - Steel	SDGT-04	104		
Geobacillus		SDGT-06	10 <sup>6</sup>		
stearothermophilus Cell Line 12980		100/pack		Tyvek	VH <sub>2</sub> O <sub>2</sub>
Cell Line 12500	6 mm - Steel	TRI-12980	10 <sup>4</sup> 10 <sup>5</sup> 10 <sup>6</sup>		
	50 of	each population/pack			
	6 mm - Paper	DA-06		Bulk	EO/Dry Heet
Bacillus atrophaeus Cell Line 9372	3 mm - Paper	DA3-06		Duik	EO/Dry Heat
	6 mm – Steel	TRI-12980	10 <sup>6</sup>	Tyvek/Mylar	VH <sub>2</sub> O <sub>2</sub>
		SDAT-06		Tyvek	



Biological Indicators (BIs) SPORE THREADS - 24 Month Shelf Life

SPORE THREADS - 24 Month Shelf Life   100/pack					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	30 mm - Cotton	TTB-06		Bulk	
		TT-06	10 <sup>6</sup>	Glassine	Steam EO/Dry Heat
Bacillus atrophaeus Cell Line 9372		TAB-06		Bulk	
		TA-06		Glassine	





Biological Indicators (BIs) SPORE WIRES - 12 Month Shelf Life

	SPORE	WIRES - 12 Month Shelf	Life   100/pack		
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Geobacillus stearothermophilus Cell Line 7953	38 mm - Steel	WTB-06	10 <sup>6</sup>	Bulk	
		WT-06		Glassine	Steam
		WTH-06		Bulk	VH <sub>2</sub> O <sub>2</sub>
Bacillus atrophaeus Cell Line 9372		WAB-06		Bulk	EO/Dry Heat
		WA-06		Glassine	20. Dry Heat



Biological Indicators (BIs) SPORE AMPULES - 24 Month Shelf Life

	SPORE	AMPULES - 24 Month S	helf Life		
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
		AT-04	104		
	1 mL	AT-05	105		
		AT-06	10 <sup>6</sup>	50 Ampules	Steam
Geobacillus	4 mL	ATL-05	105		
stearothermophilus		ATL-06	10 <sup>6</sup>		
Cell Line 7953	1mL	AT-0510	10 <sup>5</sup>	50 + 10	
		AT-0610	10 <sup>6</sup>	Negative Controls	
		ATM-06		50 + 5	
	0,7 mL AB5-06		10 <sup>6</sup>	Negative Controls	
Bacillus atrophaeus			10-	50 + 10	Low Temperature
Cell Line 9372			Negative Controls	Steam	
Negative Controls	1mL	AT10-NC		10 Negative C	ontrols





Biological Indicators (BIs)
DRY HEAT AMPULES - 24 Month Shelf Life

	DR	Y HEAT AMPULES - 24 M	lonth Shelf Life		
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
Bacillus atrophaeus Cell Line 9372	47 mm x 10.6 mm	AAD-06	10 <sup>6</sup>	50 Ampules + 50 Tubes of Medium	Dry Heat/ Depyrogenation



Biological Indicators (BIs) TUBED GROWTH MEDIUM - 12 Month Shelf Life

TUBED GROWTH MEDIUM - 12 Month Shelf Life					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	PACKAGING	PROCESS	
Geobacillus stearothermophilus Cell Line 7953	4.5 mL/Tube	PGM-100	100 Tubes/Box	Steam, VH <sub>2</sub> O <sub>2</sub> / Plasma	
Bacillus atrophaeus Cell Line 9372		GGM-100		EO, Dry Heat, VH <sub>2</sub> O <sub>2</sub> /Plasma	





Self-Contained Biological Indicator

ORDER INFORMATION						
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS	
A CONTRACTOR CANADA	8.3 x 46 mm	MSCST-05	10 <sup>5</sup>	10 <sup>5</sup> 100/Box	Steam	
Geobacillus stearothermophilus		MSCST-06	10 <sup>6</sup>		Steam	
Cell Line 7953		MSCPT-06			VH <sub>2</sub> O <sub>2</sub> / Plasma	
	9.5 x 48 mm	SCST-05	10 <sup>6</sup>	50/Box	Steam	
		SCST-06				
Bacillus atrophaeus Cell Line 9372	8.3 x 46 mm	MSCEA-06	10 <sup>5</sup>	100/Box	EO	
	9.5 x 48 mm	SCEA-06		50/Box	EU	





Spore Suspensions 24 Month Shelf Life

		ORDER INFORMAT	TION		
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PACKAGING	PROCESS
		UT-04	104		
Geobacillus stearothermophilus		UT-05	10 <sup>5</sup>		
Cell Line 7953		UT-06	10 <sup>6</sup>		Steam
		UT-07	107		
		UT-08	108	Vial	
Bacillus subtilis	10 mL	UB5-06	10 <sup>6</sup>		Low Temperature Steam
Cell Line 35021		UB5-07	107		
		UB5-08	108		
		UA-06	10 <sup>6</sup>		
Bacillus atrophaeus Cell Line 9372		UA-07	10 <sup>7</sup>		EO/Dry Heat
Cell Line 9372		UA-08	10 <sup>8</sup>		
B		UBP-06	10 <sup>6</sup>		
Bacillus pumilus Cell Line 27142		UBP-07	10 <sup>7</sup>		Radiation
		UBP-08	108		

QUALITY CONTROL – Growth Promotion Suspensions					
	DIMENSIONS/ TYPE	REF-PRODUCT CODE	POPULATION	PROCESS	
Geobacillus stearothermophilus Cell Line 7953		UT-01	<100	Vial	
Bacillus atrophaeus Cell Line 9372	10 mL	UA-01	CFU's/0.1mL		
		UB6-01			
Bacillus subtilis		UB6-06	10 <sup>6</sup>		
Cell Line 6633		UB6-07	10 <sup>7</sup>		
		UB6-08	108		





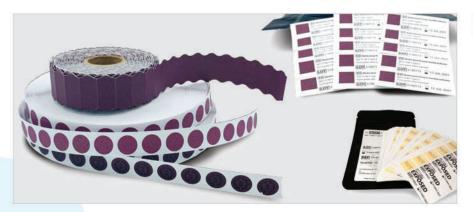
Chemical Indicators PLAIN DOTS - TYPE 1

PLAIN DOTS - TYPE 1						
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE		
04	CSBP-1	Blue to Pink	12.7 mm 5,000 / Roll			
Steam	CSPN-1	Pink to Dark		3 Years		
Dry Heat		Blue to Dark Green				
Depyrogenation	CDBN-1 pyrogenation	Blue to Dark Gray				
E0	CEVG-1	Violet to Green				
Radiation	CRYR-1	Yellow to Red				

		METO LABELS - TYPE 1		
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
EO	CEVG-2	Violet to Green	25 mm 1,500 / Roll	
Radiation	CRYR-2	Yellow to Red	25 mm	3 Years
	CRYR-4		1,000 / Roll	

IMPRINTED - TYPE 1				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CEVG-3	Violet to Green	12.7 mm Dot	3 Years
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPYB-1	Yellow to Blue	5,000 / Roll	
D	CRYR-3	Yellow to Red	14 mm Square	
Radiation	CRYR-5		5,000 / Roll	





Chemical Indicators CI STRIPST

CI STRIPS - TYPE 1					
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE	
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPVG-11	Brown to Green	19 x 64 mm 250 Strips-Labels/ Pack	3 Years	

CI STRIPS - TYPE 4				
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSYN-14	Yellow to Dark	10 6/	
Dry Heat	CDBN-14	Blue to Dark Green	19 x 64 mm 250 Strips-Labels / Pack	3 Years
Ethylene Oxide (EO)	CEVG-14	Violet to Green		



Integrators, Emulators and Bowie Dick INTEGRATOR STRIPS EMULATOR STRIPS

	INTEGRATOR STRIPS - TYPE 5			
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSPN-15	Pink to Dark	19 x 64 mm 250 Strips-Labels / Pack	3 Years

	EMULATOR STRIPS - TYPE 6			
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSBN-16	Blue to Dark	19 x 64 mm 250 Strips-Labels / Pack	3 Years







Chemical Indicators BOWIE DICK TEST PACKS AUTOCLAVE TAPE

		BOWIE DICK TEST PACKS			
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE	
Steam	BD-1X	Blue to Pink	12x12x1.6 cm 20 / Case	5 Years	

		AUTOCLAVE TAPE		
	REF-PRODUCT CODE	COLOR TRANSITION	CONFIGURATION	SHELF LIFE
Steam	CSWN-1T	Light to Dark	18mm x 50 m 12 Rolls / Case	2 Years
Ethylene Oxide (EO) or VH <sub>2</sub> O <sub>2</sub> /Plasma	CEVG-1T	Violet to Green	19 mm x 55 m	3 Years
VH <sub>2</sub> O <sub>2</sub> /Plasma	CPRY-IT	Red to Yellow	12 Rolls / Case	



Chemical Indicators
DRY BLOCK INCUBATORS

ORDER INFORMATION		
REF-PRODUCT CODE	PLUG TYPE	
INC-AM	American, 110V	
INC-EU	European 220V	
INC-UK	United Kingdom, 220V	





#### Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

#### **Product Description**

True Indicating EO Chemical

Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- · Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to an EO process through color transition from Purple to Green. The Indicators may be used to monitor EO exposures using 100% EO or gas mixtures. The color transition is designed to occur in compliance with ISO 11140-1 and display an irreversible change which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers three (3) standard configurations; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators and Labels to meet your needs.

		ORD	ER INFORMATION		
REF-PROD	OUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-1	-	5,000 Dots/Roll	12.7 mm (1/2")		
CEVG-2	~	1,500 / Roll	Meto Label 25 x 12 mm (1 x 0.5")		
CEVG-3	Secretal Property	5,000 Dots/Roll Each Imprinted with Green is Exposed	12.7 mm (1/2")	GALEN/A EO	EO PROSES



## Multicritical Process Variable Indicator

ISO 11140-1 TYPE 4

Type 4 Indicators are designed to react to two or more of the critical process variables. For EO, the critical process variable are time or length of exposure, temperature, relative humidity (RH) and EO concentration. True Indicating's Product Code CEVG-14, zindicates exposure to an EO process at the stated value (SV) of  $600 \, \text{mg/L}$  at  $54^{\circ}\text{C}$  and 60% RH for  $20 \, \text{minutes}$ .

The backing of the strip is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure and /or for record keeping purposes after exposure.

CODES CEVG-14

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-14	250 Strip/Pack	19 mm x 70 mm (0.75" x 2.75")		





#### Integrating Indicator

ISO 11140-1 TYPE 5

#### **Product Description**

Type 5 Indicators are designed to react to all critical process variables including time, temperature, RH and E0 Concentration. True Indicating's Product Code CEVG-15 indicates exposure to an E0 Process at the SV of 600 mg/L at  $54^{\circ}$ C and 60% RH for 40 minutes.

The backing of the strips is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure or for record keeping purposes after exposure.

CODES

CEVG-15

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CEVG-15	250 Strip/Pack	19 mm x 70 mm (0.75" x 2.75")		



#### **Indicator Tape**

#### **Product Description**

The Tape is used for closing packages, instrument wraps, and other items requiring EO sterilization. The EO tape can be utilized for identifying processed and non-processed items. The tape can adhere to paper, plastic, glass, metal, and non-woven materials.

CODES

EO-TAPE

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
EO-TAPE	12 Rolls/Cs	19 mm x 50 mm (0.75" x 55 yards)		







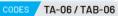


CODES MA-06 / MAB-06



CODES DA-06 / DA3-06







CODES WA-06 / WAB-06

#### **Biological Indicator and Inoculated Carriers**

#### **Product Description**

True Indicating EO Biological Indicators are:

- Compliant with ISO 11138-1 and 11138-2
- Pure high quality Bacillus atrophaeus spores, Cell Line 9372 in Water For Injection (WFI) only
- Consistent in quality Indicator to Indicator for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to an EO process. The Indicators may be used to monitor processes with 100% or EO gas mixtures for equipment and process validation or routine monitoring. The Indicators are labeled for laboratory/industrial use only.

True Indicating offers standard configurations of Biological Indicator and Inoculated Carriers; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

SPORE STRIPS				
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING	
SA-04	10 <sup>4</sup> /strip			
SA-05	10 <sup>5</sup> /strip	6 mm x 30 mm	Glassine Envelope	
SA-06	10 <sup>6</sup> /strip			

	MINI-SPOR	E STRIPS	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MA-06	106/otrin	2 mm x 10 mm	Glassine Envelope
MAB-06	10 <sup>6</sup> /strip	Z IIIII X IU MM	Bulk

SPORE DISCS					
REF-PRODUCT CODE POPULATION DIMENSIONS PACKAGING					
DA-06	10 <sup>6</sup> /disc	6 mm	Bulk		
DA3-06	10°/disc	3 mm	Dulk		

SPORE THREADS					
REF-PRODUCT CODE POPULATION DIMENSIONS PACKAGING					
TA-06	10 <sup>6</sup> /thread	70 mm	Glassine Envelope		
TAR-OR	10-7 thread	30 mm	Bulk		

SPORE WIRES				
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING	
WA-06	10 <sup>6</sup> /wire	38 x 1.5 mm	Glassine Envelope	
WAB-06	10-7WIFE	30 X 1.5 IIIII	Bulk	





#### Self-Contained Biological Indicator

#### **Product Description**

True Indicating EO SCBIs offer:

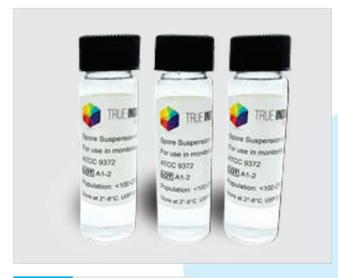
- Compliance with ISO 11138-1 and 11138-2
- Reduced Incubation Time of 48 Hours
- Distinct color transition of media from Green to Yellow when Positive for Growth

The Indicators are designed to provide assurance of effective sterilization after exposure to an EO process. The Indicators may be used to monitor processes with 100% or EO gas mixtures for equipment and process validation or routine monitoring. The self-sealing design of the Rigid SCBIs, SCEA-06, offer a better option for extended incubation up to 7 days without concern of evaporation or color reversion of positive units.

The Indicators are labeled for laboratory/industrial use only.

CODES MSCEA-06 / SCEA-06

SCBIs SCBIs					
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING		
MSCEA-06	****	8.3 mm x 46 mm	100/Box		
SCEA-06	10 <sup>6</sup> /SCBI	9.5 mm x 48 mm	50/Box		



#### **Spore Suspensions**

#### **Product Description**

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1, 11138-2 and USP
- Packaged in pharmaceutical vials with caps and septum allow access via a pipette or syringe
- Pure suspensions of Bacillus atrophaeus, Cell Line 9372 suspended in Water For Injection (WFI)

The Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to an EO process is required.

Custom population levels and other diluents including Ethanol available upon request.

CODES UA-06 / UA-07 / UA-08

SPORE SUSPENSIONS				
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE	
UA-06	10 <sup>6</sup> /0.1 mL			
UA-07	10 <sup>7</sup> /0.1 mL	10 mL	36 Months	
UA-08	108/0.1 mL			





#### **Dry Block Incubators**

- Ambient to 70°C temperature range (+/-0.5°C)
- Removable, clear polycarbonate lid allows for full viewing of all units at a glance
- Ten (10) wells each 13 mm accommodate Spore Ampules, Traditional Mini and Rigid SCBIs

	ORDER INFORMATION		
REF-PRODUCT CODE	PLUG TYPE		
INC-AM	American, 110V		
INC-EU	European 220V		
INC-UK	United Kingdom, 220V		



## MONITORING PRODUCTS FOR RADIATION PROCESSES



#### Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1 (Gamma or E-beam)

#### **Product Description**

True Indicating Radiation Chemical Process Indicator labels are manufactured with:

- Indicating Ink which contains no lead or other toxic heavy metals
- A high quality film which prevents Indicators from being torn or damaged during transport and exposure
- · Latex-free pressure sensitive adhesive
- An overlaminant which provides protection from UV light aiding to minimize color transition while in storage prior to exposure

The Indicators are designed to provide confirmation of exposure to a radiation process through color transition from Yellow to Red. The Indicators may be used to monitor radiation dose levels of 10 kGy and greater. The higher the dose level the darker the Red transition color will become.

True Indicating offers five (5) standard configurations; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators and Labels to meet your needs.

		ORDER INFORMATION				
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	1 kGY	10 kGY	25 kGY
CRYR-1	5,000 Dots/Roll	12.7 mm (1/2")				
CRYR-2	1,000 / Roll	Meto Label 25 x 12 mm (1 x 0.5")				
CRYR-3	5,000 Dots/ Roll Each Imprinted with Red is	12.7 mm (1/2")	PAOSE D	24×02 0	N. D. C.	XX 70
CRYR-4	1,000 / Roll	12.7 mm (1/2")				
CRYR-5	5,000 Dots/Roll	14 x 14 mm	SPOSEO PROPERTY	##056°	10 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2	\$ 10 m





CODES SPOR

SPORE STRIPS: SBP-06 / SBP-07 / SBP-08

SPORE SUSPENSIONS: UBP-06 / UBP-07 / UBP-08

#### Biological Indicators (BIs)

ISO 11138-1 and USP Compliant (Gamma or E-beam)

#### **Product Description**

True Indicating EO Chemical

Indicating Radiation Biological Indicator are manufactured with:

- Pure high quality Bacillus pumilus spores, Cell Line 27142, within 5 passages of an original stock culture suspended only in Water For Injection (WFI)
- Spore strips are 6 x 30 mm packaged in glassine envelopes
- Spore Suspensions are packaged in pharmaceutical grade glass vials with screw cap and septum to allow for access with a pipette or syringe

The Indicators are designed to provide assurance of effective sterilization after exposure to a radiation process. The Indicators may be used to monitor radiation dose levels of 10 kGy and greater.

True Indicating offers standard configurations of Spore Strips and Spore Suspensions; see table below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

SPORE STRIPS					
REF-PRODUCT CODE	POPULATION	D VALUE	GLASSINE DIMENSION	SHELF LIFE	
SBP-06	10 <sup>6</sup> /strip	0.1 to 0.2 Mrad			
SBP-07	10 <sup>7</sup> /strip	Or 1.0 to 2.0 kGy	30 x 38 mm	24 Months	
SBP-08	108 /strip	1.0 to 2.0 kgy			

SPORE SUSPENSION				
REF-PRODUCT CODE	POPULATION	D VALUE	VOLUME	SHELF LIFE
UBP-06	10 <sup>6</sup> /0.1ml	0.1 to 0.2 Mrad		
UBP-07	10 <sup>7</sup> /0.1ml	Or 1.0 to 2.0 kGy	10 mL	24 Months
UBP-08	108 /0.1ml	1.0 to 2.0 kgy		





#### Chemical Process Indicators (CPIs)

ISO 11140-1 TYPE 1

#### **Product Description**

True Indicating Steam Chemical

Process Indicator labels are manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- · Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a steam process through color transition from Blue to Pink for the CSBP-1 or Pink to Dark for the CSPN-1. The Indicators may be used to monitor steam processes at 121°C to 137°C. The color transition is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers two (2) standard configurations; see table below. In addition to the standard configurations, True Indicating will manufacture custom Indicators and labels to meet your needs.

ORDER INFORMATION						
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED		
CSBP-1	5,000 Dots/Roll	12.7 mm (1/2")				
CSPN-1	5,000 Dots/Roll	12.7 mm (1/2")				



## Multicritical Process Variable Indicator

ISO 11140-1 Type 4

Type 4 Indicators are designed to react to two or more of the critical process variables. For EO, the critical process variable are time or length of exposure, temperature, relative humidity (RH) and EO concentration. True Indicating's Product Code CEVG-14, zindicates exposure to an EO process at the stated value (SV) of  $600 \, \text{mg/L}$  at  $54^{\circ}\text{C}$  and 60% RH for 20 minutes.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the strip to packages during exposure and /or for record keeping purposes after exposure.

CODES CSYN-14

ORDER INFORMATION					
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED
CSYN-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")	NOT		





#### Integrating Indicator

ISO 11140-1Type 5

Type 5 Indicators are designed to react to all critical process variables including time, temperature and moisture. True Indicating's Product Code CSYN-15 indicates exposure to a steam process at the Stated Value (SV) of 121°C for 16.5 minutes or 135°C for 1.2 minutes.

The Indicator will transition from Pink to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Pink to Dark and the word "NOT" being completely concealed provides indication of effective steam sterilization conditions.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

CODES CSPN-15

ORDER INFORMATION					
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED
CSPN-15	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")	NOT	100	101



#### **Emulating Indicators**

ISO 11140-1 Type 6

Type 6 Indicators are designed to react to all critical process variables including time, temperature and moisture.

True Indicating's Product Code CSBN-16 indicates exposure to a steam process at the Stated Value (SV) of 121°C for 10 minutes or 134°C for 3.5 minutes.

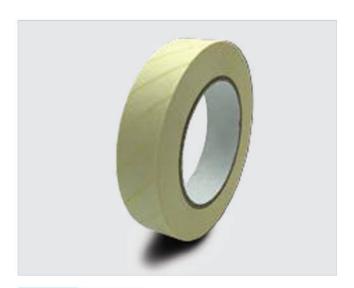
The Indicator will transition from Blue to Dark; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Blue to Dark and the word "NOT" being completely concealed provides indication of effective steam sterilization conditions.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

CODES CSBN-16

ORDER INFORMATION						
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	INEFFECTIVE CONDITIONS	EXPOSED	
CSBN-16	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")	NOT	NOT	No. of Concession, Name of Street, or other teams, and the str	





#### **Autoclave Indicator Tape**

#### **Product Description**

The tape is used for closing packages, instrument wraps and other items requiring steam sterilization. The autoclave tape can be utilized for identifying processed from unprocessed items. The can adhere to paper, plastic, glass, metal and non-woven materials.

CODES CSWN-1T

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CSWN-IT	12 Rolls/Cs	19 mm x 55 m (0.75" x 60 yards)		11



## BOWIE DICK TEST PACKS AND TEST SHEETS

ISO 11140-4 Type 2 (BD-1x) and 11140-3 Type 2 (A4TS)

#### **Product Description**

Bowie and Dick Test Packs and Test Sheets detect the presence of residual air in prevacuum steam sterilizers-autoclaves operating at 121° – 134°C. The internal Indicator sheet will demonstrate a uniform color change from Blue to Pink for Product Code BD-1X or Blue to Dark for Product Code A4TS when proper conditions for sub-atmospheric pulsing have been met. A Test Sheet yielding inconsistent color transition is indicative of one or more of the following being insufficient: exposure temperature, exposure time, vacuum depth, number of vacuum pulses, steam penetration, or air removal.

A Bowie Dick test should be performed at least once daily on the bottom shelf, over the drain closest to the door in an otherwise empty chamber. Product Code BD-1X is designed to be placed directly into the sterilizer-autoclave as the Test Sheet is contained within the Test Pack. Product Code A4TS is designed to be placed into a towel pack in accordance with ISO 11140-3.

Per ISO 11140-3 and 11140-4, exposures shall be performed at 121°C for 15 minutes or 134°C for 3.5 minutes. Please consult with Cus-

Per ISO 11140-3 and 11140-4, exposures shall be performed at 121°C for 15 minutes or 134°C for 3.5 minutes. Please consult with Customer Service regarding evaluation at times or temperatures outside those recommended.

ORDER INFORMATION					
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED	
BD-1X	20 Test Packs/ Box	123 mm x 123 mm x 16 mm			
A4TS	50 Test Sheets/ Box	210 mm x 297 mm	The second secon		







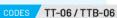


CODES MT-06 / MTB\_06



CODES DT-06 / DT3-06







CODES WT-06 / WTB-06

#### **Biological Indicators and Inoculated Carriers**

#### **Product Description**

True Indicating Steam Biological Indicators (BIs) and Inoculated Carriers are:

- Compliant with ISO 11138-1 and 11138-3
- Pure high quality Geobacillus stearothermophilus, Cell Line 7953 Spores or Bacillus subtilis Cell Line 35021 (5230) Spores for Low-Temperature Processes
- · Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a steam process. The Indicators may be used to monitor processes from  $110^{\circ}\text{C}$  -  $137^{\circ}\text{C}$  for equipment and process validation or routine monitoring. Use of Bacillus subtilis Spore Strips is recommended for low temperature steam sterilization processes at  $110^{\circ}$ -  $118^{\circ}\text{C}$ . The Indicators are labeled for laboratory or industrial use only.

	SPORE STRIPS -	Bacillus subtilis	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
SB5-06	10 <sup>6</sup>	6 mm x 30 mm	Glassine Envelope
	SPORE STRIPS - Geobaci	llus stearothermophilus	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
ST-04	104		
ST-05	10⁵	6 mm x 30 mm	Glassine Envelope
ST-06	10 <sup>6</sup>		
	MINI-SPOR	E STRIPS	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MT-06	106	0 10	Glassine Envelope
MTB-06	10 <sup>6</sup>	2 mm x 10 mm	Bulk
	SPORE D	ISCS	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
DT-06	10 <sup>6</sup>	6 mm	Bulk
DT3-06	10	3 mm	Duik
	SPORE THE	READS	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
TT-06	10 <sup>6</sup>	30 mm	Glassine Envelope
TTB-06	10"	30 mm	Bulk
	SPORE WIF	ES	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
WT-06	106	38 mm	Glassine Envelope
WTB-06	10	30 11111	Bulk





#### Self-Contained Biological Indicator

#### Product Description

True Indicating Steam SCBIs offer:

- Compliance with ISO 11138-1 and 11138-3
- Reduced Incubation Time of 24 Hours
- Distinct color transition of media from Purple to Yellow when positive for Growth

The SCBIs are designed to provide assurance of effective sterilization after exposure to a steam process. The SCBIs may be used to monitor processes up to 140°C for equipment and process validations and routine monitoring. The self-sealing rigid SCBIs, SCST-05 and SCST-06, offer a better option for extended incubation up to 7 days with less concern of evaporation or color reversion of positive units.

The SCBIs are labeled for laboratory or industrial use only.

CODES

MSCST-05 / MSCST-06 / SCST-05 / SCST-06

SCBIs				
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING	
MSCST-05	10 <sup>5</sup>	8.3 mm x 46 mm	100/Box	
MSCST-06	10 <sup>6</sup>	0.3 11111 X 40 111111	100/600	
SCST-05	10 <sup>5</sup>	9.5 mm x 48 mm	E0/Pey	
SCST-06	10 <sup>6</sup>	3.3 IIIII X 48 MM	50/Box	





AT-04 / AT-05 / AT-06 / AT-0610 / ATM-06 / AB5-06

#### Spore Ampules

#### **Product Description**

Spore Ampules are SCBIs consisting of a hermetically sealed glass ampule which contains modified Tryptic Soy Broth (TSB) with a pH indicator and Geobacillus stearothermophilus Cell Line 7953 or Bacillus subtilis Cell Line 35021 (5230) Spores with a known population and resistance level. The modified TSB will transition from the initial color to yellow and or demonstrate turbidity in the presence of bacterial growth. The Spore Ampules Geobacillus stearothermophilus offer a reduced incubation period of 48 hours and 72 hours for Bacillus subtilis.

Spore Ampules are ideal for monitoring liquid steam sterilization cycles but may also utilized in dry loads. Geobacillus stearother-mophilus Spore Ampules may be utilized to monitor steam processes at 121°C to 137°C, whereas Bacillus subtilis Spore Ampules are recommended for monitoring low-temperature steam processes in the range of 110°C to 118°C.

Spore Ampules are labeled for laboratory or industrial use only.

Geobacillus stearothermophilus CELL LINE 7953					
REF-PRODUCT CODE	POPULATION	AMPULE VOLUME	DIMENSIONS	PACKAGING	
AT-04	104	1 mL 47 mm x 10.6 n			
AT-05	105			50/Box	
AT-06			47 mm x 10.6 mm		
AT-0610	10°			50/Box + 10 Negative Control Ampules	
ATM-06		0.7 mL	40 mm x 6.5 mm	50/Box + 5 Negative Control Ampules	
AT-NC-10	NA-Negative Control	1 mL	47mm x 10.6mm	10/Box	

Bacillus subtilis CELL LINE 35021				
REF-PRODUCT CODE	POPULATION	AMPULE VOLUME	DIMENSIONS	PACKAGING
AB5-06	10 <sup>6</sup>	1mL	40 mm x 6.5 mm	100/Box + 10 Negative Control





#### Spore Suspensions

#### **Product Description**

True Indicating Spore Suspensions are:

- Compliant with ISO 11138-1 and 11138-3 (where applicable)
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are pure suspensions of spores and Water For Injection (WFI) designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a steam process is required.

Custom population levels and other diluents including Ethanol available upon request.

CODES

UT-04/UT-05/UT-06/UT-07/UT-08/UB5-06/UB5-07/UB5-08/UB6-06/UB6-07/UB6-08

Geobacillus stearothermophilus CELL LINE 7953					
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
UT-04	10 <sup>4</sup> /0.1 mL				
UT-05	10⁵/0.1 mL	10 mL	24 Months		
UT-06	10 <sup>6</sup> /0.1 mL	IO ML	24 Months		
UT-07	10 <sup>7</sup> /0.1 mL				
UT-08	10 <sup>8</sup> /0.1 mL				

Bacillus subtilis CELL LINE 35021 (5230)					
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
UB5-06	10 <sup>6</sup> /0.1 mL				
UB5-07	10 <sup>7</sup> /0.1 mL	10 mL	24 Months		
UB5-08	10 <sup>8</sup> /0.1 mL				

Bacillus subtilis CELL LINE 6633					
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
UB6-06	10 <sup>6</sup> /0.1 mL				
UB6-07	10 <sup>7</sup> /0.1 mL	10 mL	24 Months		
UB6-08	108/0.1 mL				





#### **Modified Growth Medium**

#### **Product Description**

Prepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator. The pH indicator transitions from Purple to Yellow in the presence of Geobacillus stearothermophilus bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

Modified growth medium offers a reduced incubation period of 24 hours for BIs and Inoculated Carriers of Geobacillus stearothermophilus when exposed to Steam or Vaporized Hydrogen Peroxide  $(VH_2O_2)$  processes.

CODES

PGM-50R / PGM-100

	Bacillus subtilis CELL LINE 35021					
REF-PRODUCT CODE	TUBE DIMENSIONS	VOLUME	PACKAGING	SHELF LIFE		
PGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Reusable Holding Rack	12 Months		
PGM-100			100 Tubes	iz-rontilo		

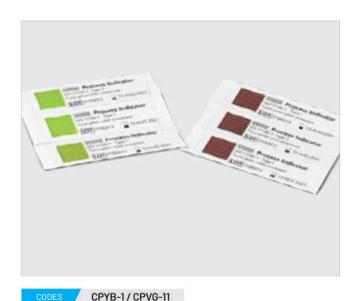


#### **Dry Block Incubators**

- Ambient to 70°C temperature range (+/-0.5°C)
- Removable, clear polycarbonate lid allows for full viewing of all units at a glance
- Ten (10) wells each 13 mm accommodate Spore Ampules, Traditional Mini and Rigid SCBIs

ORDER INFORMATION		
REF-PRODUCT CODE	PLUG TYPE	
INC-AM	American, 110V	
INC-EU	European 220V	
INC-UK	United Kingdom, 220V	





#### Chemical Process Indicators (CPIs)

ISO 11140-1 Type 1

#### **Product Description**

True Indicating VH202/Plasma Chemical

Process Indicator labels are manufactured with:

- · Water-based Indicating Ink which contains no lead or other toxic heavy metals
- · Latex-free pressure sensitive adhesive

The Indicators are designed to provide confirmation of exposure to a VH202/Plasma process through color transition; Product Code CPYB-1 transitions from Yellow to Blue and Product Code CPVG-11 from Brown to Green. The Indicators may be used to monitor VH202/Plasma sterilization processes at ≥50°C and 2.3 mg/L of VH202/Plasma. The color transition which occurs after VH202/Plasma exposure is designed to occur in compliance with ISO 11140-1 and display an irreversible color transition which is distinct allowing for processed from unprocessed items to be easily distinguished.

True Indicating offers standard configurations which may be used in VH202/Plasma processes; see table below. In addition to the standard configuration, True Indicating will manufacture custom Indicators and labels to meet your needs.

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
СРҮВ-1	5,000 Dots/Roll	12.7 mm (1/2")	BLUE 18 H.O. STPOSES	HO: Exposes
CPVG-11	250 Strips/pack	19 mm x 64 mm (0.75" x 2.5")		



# Multicritical Process Variable Indicator

ISO 11140-1 TYPE 4

#### **Product Description**

Type 4 Indicators are designed to react to two or more of the critical process variables. For VH202/Plasma, the critical process variables are time, temperature and hydrogen peroxide concentration. True Indicating's Product Code CPRY-14, indicates exposure to a VH202/Plasma process at the stated value (SV) of 2.3 mg/L, 50°C for 6 minutes with complete color change at 30 minutes ± 5 minutes.

The Indicator will transition from Red to Yellow; the transition color may vary depending on the load configuration, length and conditions of exposure. A color transition from Red to Yellow provides indication of exposure to a VH202/Plasma process where two or more of the critical process variables were met for sterilization.

The backing of the strip is removable which exposes latex-free adhesive for easy application of the Indicator to packages during exposure or for record keeping purposes after exposure.

ORDER INFORMATION					
REF-PRODUCT CODE QUANTITY INDICATOR DIMENSION UNEXPOSED EX					
CPRY-14	250 Strip/Pack	19 mm x 64 mm (0.75" x 2.5")		-	





#### **Indicator Tape**

#### **Product Description**

True Indicating VH202/Plasma Chemical Process Indicator Tape is manufactured with:

- Water-based Indicating Ink which contains no lead or other toxic heavy metals
- · Latex-free pressure sensitive adhesive

The Indicator Tape is used for closing packages, instrument wraps and other items requiring VH202/Plasma sterilization. The Indicator tape can be utilized for identifying processed from unprocessed items. The tape can adhere to plastic, glass, metal and non-woven materials.

CODES

CPRY-1T

		ORDER INFORMATION		
REF-PRODUCT CODE	QUANTITY	INDICATOR DIMENSION	UNEXPOSED	EXPOSED
CPRY-IT	12 Rolls/Cs	19 mm x 55 m (0.75" x 60 yards)	1.	66



#### Self-Contained Biological Indicator

#### **Product Description**

True Indicating Steam VH,0,/Plasma offer:

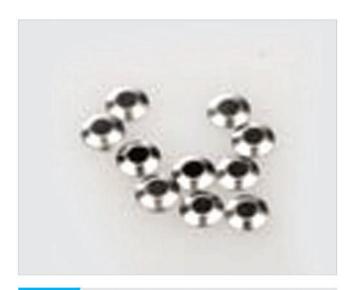
- Compliance with ISO 11138-1
- Reduced Incubation Time of 24 Hours

The SCBIs are designed to provide assurance of effective sterilization after exposure to a VH202/Plasma process. The SCBIs are labeled for laboratory or industrial use only.

CODES MSCPT-06

		SCBIs	
REF-PRODUCT CODE	POPULATION	DIMENSIONS	PACKAGING
MSCPT-06	10 <sup>6</sup>	8.3 mm x 46 mm	100/Box





WTH-06 / SDTM-06 / SDTT-06 / TRI-7953 / SDGM-06 SDGT-04 / SDGT-06 / TRI-12980 / SDAM-06 / SDAT-06

#### **Biological Indicator and Inoculated Carriers**

#### **Product Description**

True Indicating VH202/Plasma Biological Indicators (BIs) and Inoculated Carriers are:

- Compliant with ISO 11138-1
- Pure high quality Geobacillus stearothermophilus, Cell Line 7953 or 12980 and Bacillus atrophaeus Cell Line 9372 Spores
- · Consistent quality for Population, Purity and Resistance

The Indicators are designed to provide assurance of effective sterilization after exposure to a VH202/Plasma process. The Indicators may be used to monitor sterilization processes for equipment and process validation or routine monitoring and when removed from the primary packaging used to monitor disinfection processes. The Indicators are labeled for laboratory or industrial use only.

True Indicating offers standard configurations of BIs and Inoculated Carriers; see tables below. In addition to standard configurations, True Indicating will manufacture custom Indicators to meet your needs.

Geobacillus stearothermophilus CELL LINE 7953   12 Month Shelf Life				
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE	
WTH-06		38 mm Steel Wire	Bulk	
SDTM-06	10 <sup>6</sup>		Tyvek/Mylar Pouch	
SDTT-06		6 mm Steel Disc	Tours Donnel	
TRI-7953	10 <sup>4</sup> /10 <sup>5</sup> /10 <sup>6</sup>		Tyvek Pouch	

Geobacillus stearothermophilus CELL LINE 12980   12 Month Shelf Life					
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
SDGM-06	10 <sup>6</sup>		Tyvek/Mylar Pouch		
SDGT-04	104	6 mm Steel Disc			
SDGT-06	10 <sup>6</sup>		Tyvek Pouch		
TRI-12980	104/105/106				

	Bacillus atrophaeus	CELL LINE 9372   12 Month Shelf L	.ife
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE
SDAM-06	106	6 mm Steel Disc	Tyvek/Mylar Pouch
SDAT-06	106	o mini oteer bise	Tyvek Pouch





#### **Spore Suspensions**

#### **Product Description**

True Indicating Spore Suspensions are:

- · Compliant with ISO 11138-1
- Packaged in pharmaceutical vials with caps and septum which allow access via a pipette or syringe

Spore Suspensions are designed for use in direct inoculation or other studies where assurance of effective sterilization after exposure to a VH202/Plasma process is required.

Custom population levels and other diluents including Ethanol available upon request.

CODES

UTH-06/UTH-07/UTH-08/UG-06/UG-07/UG-08

Geobacillus stearothermophilus CELL LINE 7953					
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE		
UTH-06	10 <sup>6</sup> /0.1 mL				
UTH-07	10 <sup>7</sup> /0.1 mL	10 mL	24 Months		
UTH-08	108/0.1 mL				

Geobacillus stearothermophilus CELL LINE 12980				
REF-PRODUCT CODE	POPULATION	VOLUME	SHELF LIFE	
UG-06	10 <sup>6</sup> /0.1 mL			
UG-07	10 <sup>7</sup> /0.1 mL	10 mL	24 Months	
UG-08	108/0.1 mL			



#### **Modified Growth Medium**

#### **Product Description**

TPrepared growth medium consists of an exclusively formulated Tryptic Soybean Broth (TSB) modified with a pH indicator. The pH indicator transitions to yellow in the presence of bacterial growth allowing for a reduced incubation period when used in conjunction with True Indicating BIs and Inoculated Carriers.

Modified growth medium offers a reduced incubation period of 24 hours for Geobacillus stearothermophilus or for a minimum of 48 hours with Bacillus atrophaeus when exposed to Steam, Ethylene Oxide (EO), dry heat or Vaporized Hydrogen Peroxide  $(VH_2O_2)$  processes.

CODES

PGM-50R / PGM-100 / GGM-50R / GGM-100

ORDER INFORMATION					
REF-PRODUCT CODE	POPULATION	VOLUME	PACKAGING	SHELF LIFE	
PGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Re-usable Holding Rack	12 Months	
PGM-100			100 Tubes		

ORDER INFORMATION					
REF-PRODUCT CODE	POPULATION	VOLUME	PACKAGING	SHELF LIFE	
GGM-50R	16.7 mm x 62.8 mm	4.5 mL ± 0.5 mL	50 Tubes + Re-usable Holding Rack	12 Months	
GGM-100			100 Tubes		



# **LITERATURE**

Cleanroo	Cleanroom Classification according to EN ISO 14644-1 - particles per m3 (maximum limit)						
CLASS	≥ 0.1 µm	≥ 0.2 µm	≥ 0.3 µm	≥ 0.5 µm	≥ 1.0 µm	≥ 5.0 µm	
ISO 1	10						
ISO 2	100	24	10				
ISO 3	1000	37	102	35			
ISO 4	10000	2370	1020	352	83		
ISO 5	100000	23700	10200	3520	832		
ISO 6	1000000	237000	102000	35200	8320	293	
ISO 7				352000	83200	2930	
ISO 8				3520000	832000	29300	
ISO 9				35200000	8320000	293000	

	GMP Classificatio	n – particles per m3	(maximum limit)	
	At R	est	In oper	ation
CLASS	≥ 0.5 µm	≥ 0.5 µm	≥ 0.5 µm	≥ 0.5 µm
Α	3520	20	3520	20
В	3520	29	35200	2900
С	352000	2900	3520000	29000
D	3520000	29000	Not d	efined

1	SO - ACC -classes acco	rding to EN ISO 14644-8			
ISO-ACC - Class	Concentration				
CLASS	g/m³	y/m³ μg/m³ ng/m³			
0	10°	10 <sup>6</sup>	10 <sup>9</sup>		
-1	10-1	10⁵	108		
-2	10-2	104	10 <sup>7</sup>		
-3	10-3	10 <sup>3</sup>	10 <sup>6</sup>		
-4	10-4	10 <sup>2</sup>	10 <sup>5</sup>		
-5	10- <sup>5</sup>	10¹	104		
-6	10- <sup>6</sup>	10°	10 <sup>3</sup>		
-7	10- <sup>7</sup>	10-1	10 <sup>2</sup>		
-8	10-8	10-2	10 <sup>1</sup>		
-9	10- <sup>9</sup>	10-3	100		
-10	10-10	10-4	10-1		
-11	10-11	10-5	10-2		
-12	10-12	10- <sup>6</sup>	10-3		

# LITERATURE



Abrasion Resistance	Determination of the abrasion resistance of textile fabrics using the Martindale method according to ISO 12947; enables conclusions about the self-contamination by textile particles.
Body Box	An indispensable test cabin for testing the effectiveness of cleanroom fabrics under real environmental conditions.
Breathability	After determining the water vapour permeability of the textile, its breathability is assessed.
Electrostatic Properties	in addition to conductivity, the disposition to electric charge and discharging rate are particularly considered here
Endless Filament	A fibre of theoretically unlimited length is often described as continuous or endless filament; counted here are synthetics which are not cut at a specific length but also natural silk thread.
ESD	electrostatic discharge: a voltage breakdown caused by a large potential difference. These breakdowns (possibly visible as sparks) cause a short, high electric current and can lead to the ignition of flammable substances. Under unfavourable circumstances, fire and explosion hazards as well as hazards to persons due to electric shock may occur. Other undesirable consequences of electrostatic discharges are damage to electrical components in equipment.
Fabric	Textile area-measured material consisting of at least two crossed thread or yarn systems. The threads in the longitudinal direction are called warp threads (warp), the transverse threads are called weft threads (weft). The threads crossing each other regularly (this is called weave type) thus enable a relatively firm structure.
Guaze	Net-like, lightweight textile.
Haptics	Feature which is grasped through the tactile sense. The grip of a fabric. An often very subjective judgement, if a piece of clothing/textile feels pleasant or rather is classified as unpleasant.
Knitted Fabric (knit fabric)	Textile area-measured product consisting of knitted or crocheted fabrics obtained by means of one or more threads or yarns using at least two needles. Knitted fabrics are generally more elastic than woven fabrics.
Microfibre (microfiber)	The fineness of such a fibre is less than 1 dtex; i.e. 10,000 m of a microfiber weigh <1 g. Microfibre fabrics are very soft and retain their shape.
Particle Migration Behaviour	Particles and fibres released by frictional movements move through the textile due to mechanical forces.
Particle Retention	Filtration efficiency against airborne particles.
Plain Weave	These fabrics show the same fabric appearance on the upper and lower fabric side; each warp thread alter-nately crosses a weft thread; see also twill weave.
PPE (Personal Protective Equipment)	Items such as clothing designed to protect the wearer against risks arising from the working environment.
Special Accessories/ Special Options	Cleanroom garments are devised using the modular design principle. Standard models are defined (a sort of basic scaffolding) which, depending on customer requirements, can be extended with additional options (special accessories). Examples: bags, loops, knitted cuffs, logos etc.
Textile Equipment	Garments can be additionally equipped at the end of the manufacturing chain with defined surface finishes, thus to achieve a certain functionality of the fabric. E. g. durable water-repellent equipment and antimicro-bial equipment.
Triboelectric Behaviour	The behaviour of electrical charges on plastic surfaces (here synthetic textile surfaces). Describes how susceptible a textile is to becoming charged by friction and how quickly it discharges again.
Twill	Also called twill weave, besides the plain weave and the satin weave, one of the three basic bonding types for woven fabric. A distinction is made between warp and weft twill, depending on whether the warp or weft threads are woven on the upper side of the goods predominate. A characteristic feature is the oblique burr.
Twill Weave	On these fabrics, a distinction is made between warps and wefts, depending if the warp or weft threads predominate on the top (face) of the fabric. A typical characteristic is the diagonally running ridge. See also plain weave.

# **REQUEST FORM**

# Request FORM / Talep Formu

## E-MAIL: info@temizodamarketi.com

Please fill in this from and fax it back to us. / Lütfen formu doldurup bize geri yollayınız.

Our expert customer service team will contact you directly. / Uzman arkadaşlarımız sizinle temasa geçeceklerdir.

Page/Sayfa	Article / Ürün Adı		Quantity / Miktar	Colour / Renk	Size / Beden
Notes / No	t:				
ISO-3 ISO A B Is your clear Purely p Particle A non-o	cify your cleanroom classes / Lütfen temizoda sınıfır  D-4 ISO-5 ISO-6 ISO-7 ISO-8 ISO-9 NONE  C D  C D  particle controlled area / Tamamen partikül kontrollu and microbiological controlled area / Partikül ve mikrobiyolojik kontrollü alan controlled cleanroom / Kontrolsüz temizoda  erested in the following information / Ayrıca lütfen aşağıdalı	A P	ddress / Company stamp		
	TECHNICAL DOKUMENTATION  CLEANROOM GARMENTS  UNDERGARMENTS  CLEANROOM SERVICE SHOES  DISPOSABLE AND PROTECTIVE CLOTHING GLOVES AND FINGER COTS CLEANROOM PAPER AND ACCESSORIES  CLEANROOM WIPES	1000000	CLEANING PRODU DISINFECTION PRO TACKY MATS FILTERS FURNITURE DISPENSERS MISCELLANEOUS DRY FOG TECHNO	DDUCTS	

# NOTES



Notes:	
	*************
	******************
	***************************************
	• • • • • • • • • • • • • • • • • • • •
	*******************



# **NOTES**

Notes:



Cevizli Mah. Ulubey Sk. No:4/A Kat:1 Nursanlar Plaza 1
TR - 34865 Kartal - İstanbul / TÜRKİYE
T.: +90 216 573 09 35 • F.: +90 216 573 09 96
info@temizodamarketi.com



www.temizodamarketi.com