



Reliable solutions

to ensure safety in the pharmaceutical
and biotechnology sectors

For Industrial Applications

Index

Sterilization monitoring

Ethylene oxide

SCBI: **BT10/6, BT110/6**

Spore strip: **BT40/6, BT60/6**

Chemical dots: **CD17**

Chemical tape: **CT10**

Chemical label: **CD13**

Chemical multivariable: **CD16**

Chemical integrator: **IT12**

5

Steam

Spore strip: **BT50/6, BT60/6**

SCBI: **BT20/5 /6**

SCBI: **BT224/6 | BT222/6 | BT220/6**

Biological ampoule: **BT21/6 | BT22/6 | BT23/6 |**

BT24/6

Bowie-Dick test: **BD125X-2 | BD125X-1 |**

BD125X10-2

Chemical multivariable: **CD29**

Chemical label: **CD23 | CD28**

Chemical tape: **CT22**

Chemical integrator: **IT26-C**

Chemical emulator: **IT28**

Chemical integrator: **T26-1YS**

Chemical emulator: **IT27-3YS | IT27-4YS |**

IT27-5YS | IT27-7YS | IT27-18YS

9

Dry heat

Spore strip: **BT40/6, BT60/6**

SCBI: **BT30/6, BT31/6**

Chemical emulator: **IT31**

Chemical multivariable: **CD30**

Chemical label: **CD33**

Chemical tape: **CT30**

17

Hydrogen peroxide

SCBI: **BT91/6, BT96/6**

Spore strip: **BT93/6**

Chemical tape: **CT40**

Chemical label: **CD43 | CD48**

Chemical strip: **CD40, CD42**

21

Gamma radiation

Chemical label: **CD77**

Spore strip: **BT70/6**

25

Culture media and compatibles
chart

26

Auto-readers and compatibles
chart

27

Cleaning monitoring

Washing

CDWU

CDWA3, CDWA4

30

Hygiene

PRO1 MICRO

PRO1 RT

31

Environmental disinfection

UV-C

CD87-100, CD87-200G

33

VH₂O₂

BT97

33

Accessories

Incubator and Auto-readers

IC10/20FRLCD, IC10/20FR, IC10/20

MINIBIO, MINIPRO

35

Labeler

CG3

36

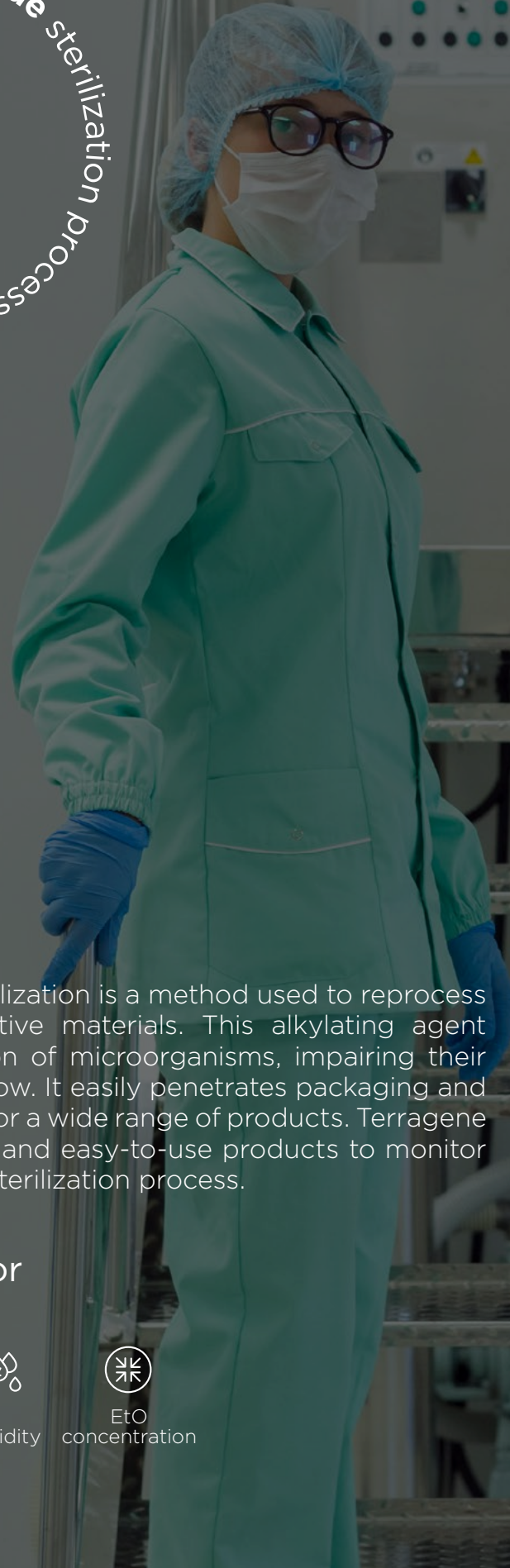
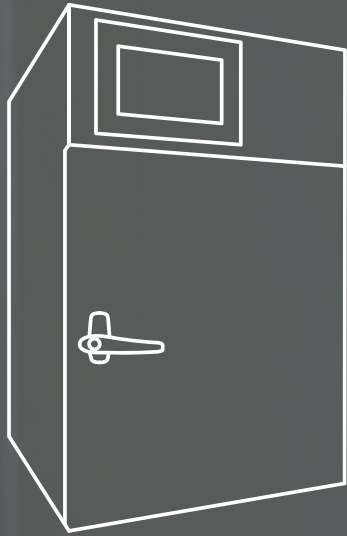
Products presentation chart

37

Sterilization monitoring

- ↳ Ethylene oxide
- ↳ Steam
- ↳ Dry heat
- ↳ Hydrogen peroxide
- ↳ Gamma radiation

Ethylene Oxide sterilization process



Ethylene oxide (EtO) sterilization is a method used to reprocess high temperatures sensitive materials. This alkylating agent alters the cellular function of microorganisms, impairing their ability to replicate and grow. It easily penetrates packaging and device lumens. Effective for a wide range of products. Terragene offers a range of reliable and easy-to-use products to monitor the effectiveness of this sterilization process.

Variables to monitor



Temperature



Time



Humidity



EtO
concentration



Sterilization monitoring | Ethylene oxide

Self-contained Biological Indicators for rapid, easy and safe evaluation of process lethality.

48 h Biological Indicator for EtO

SKU: BT10
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: EtO
Microorganism: *Bacillus atrophaeus* ATCC® 9372
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017
Related products:



4 h Biological Indicator for EtO

SKU: BT110
Brand: Bionova®
Category: Biological Indicators, Rapid Fluorescence
Process: EtO
Microorganism: *Bacillus atrophaeus* ATCC® 9372
Population: 10⁶ Spores/carrier
Readout time: 4 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017
 ↳ FDA-cleared
Related products:



ATCC® is a registered trademark of American Type Culture Collection. The identity, purity, or authenticity of Terragene products are their exclusive responsibility; ATCC® has no liability for them.



Sterilization monitoring | Ethylene oxide

Verify process lethality with our spore strips and specific culture media.

Spore Strips for EtO and dry heat

SKU: BT40/6
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: EtO, dry heat
Microorganism: *Bacillus atrophaeus* ATCC® 9372
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017, ISO 11138-4:2017
Related products:



Spore Strips for EtO, dry heat, and steam

SKU: BT60
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: EtO, dry heat, steam
Microorganism: *Bacillus atrophaeus* ATCC® 9372, *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours, 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017, ISO 11138-3:2017, ISO 11138-4:2017
Related products:



Our labels seamlessly stick to packs and pouches, ensuring clear and reliable tracking.

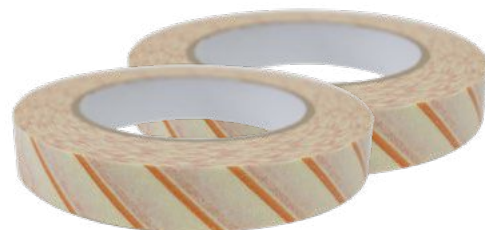
Self-adhesive label indicator for EtO

SKU: CD17
Brand: Chemdye®
Category: Chemical Indicators
Process: EtO
Initial color: ●
Final color: ●
Indicator type: Type 1
 Chemical Indicator
Regulations: ISO 11140-1:2014



Self-adhesive indicator tape for EtO

SKU: CT10
Brand: Cintape®
Category: Chemical Indicators
Process: EtO
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014





Sterilization monitoring | Ethylene oxide

Self-adhesive label indicator
for automatic labeler for EtO

SKU: CD13

Brand: Chemdye®

Category: Chemical Indicators

Process: EtO

Initial color: ●

Final color: ●

Indicator type: Type 1 Chemical Indicator

Regulations: ISO 11140-1:2014

Related products:



Multiparametric indicator to evaluate internal
exposure conditions.

Multivariable chemical
indicator for EtO

SKU: CD16

Brand: Chemdye®

Category: Chemical Indicators

Process: EtO

Initial color: ●

Final color: ●

Indicator type: Type 4 Chemical Indicator

Regulations: ISO 11140-1:2014

↳ **FDA-cleared**



Two-level integrator chemical indicator to ensure
correct and secure conditions inside the package.

Chemical Integrator for EtO

SKU: IT12

Brand: Integron®

Category: Chemical Indicators

Process: EtO

Initial color: ● ●

Final color: ● ●

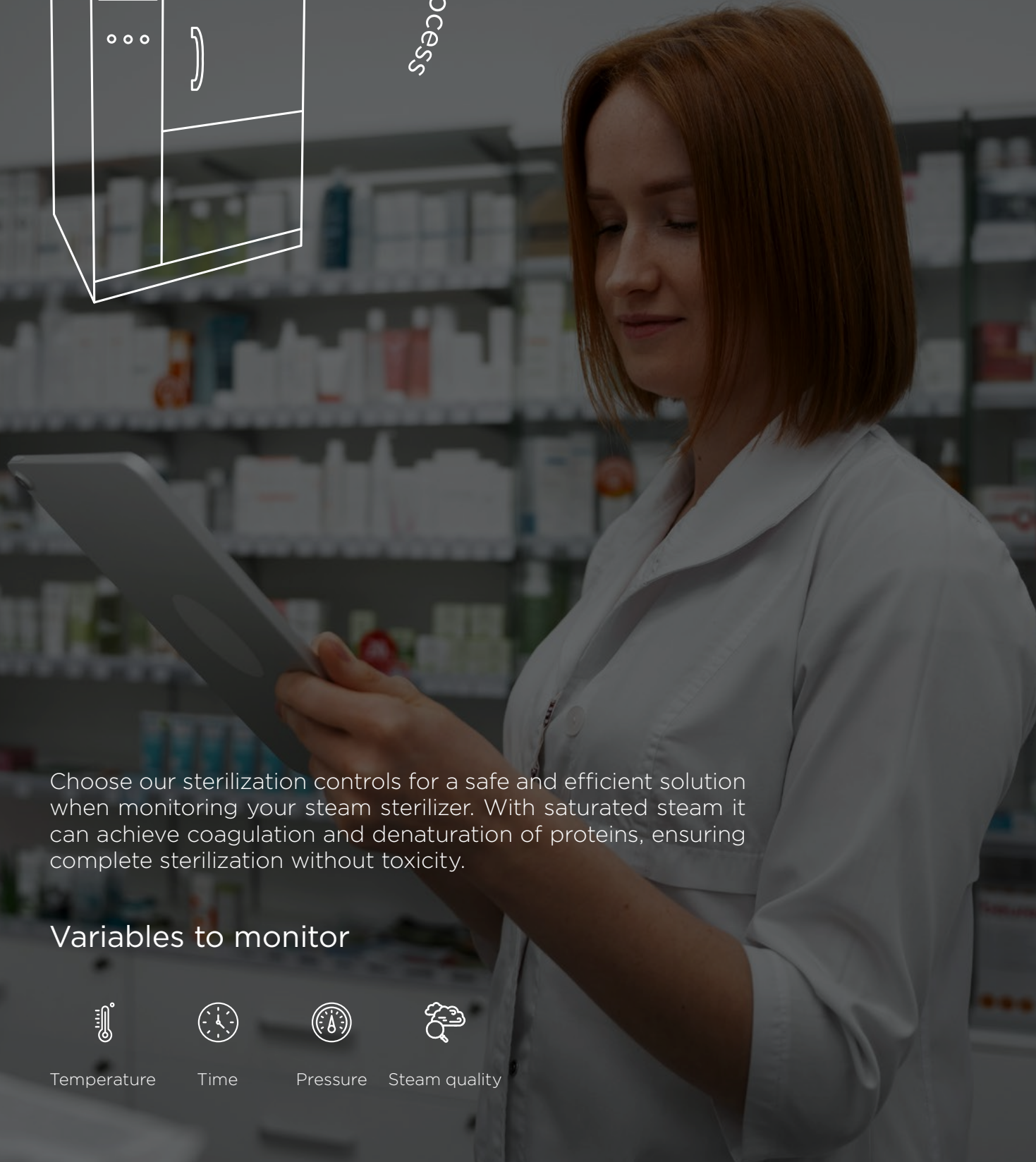
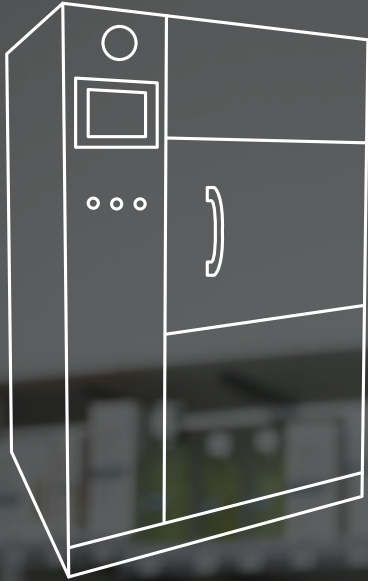
Indicator type: Type 5 Chemical Indicator

Regulations: ISO 11140-1:2014

↳ **FDA-cleared**



steam sterilization process



Choose our sterilization controls for a safe and efficient solution when monitoring your steam sterilizer. With saturated steam it can achieve coagulation and denaturation of proteins, ensuring complete sterilization without toxicity.

Variables to monitor



Temperature



Time



Pressure



Steam quality



Sterilization monitoring | Steam

Verify process lethality with our spore strips and specific culture media.

Spore strips for steam and LTSF

SKU: BT50/6
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: steam, Formaldehyde
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours, 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017, ISO 11138-5:2017
Related products:



Spore Strips for steam, EtO, and dry heat

SKU: BT60
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: steam, EtO, dry heat
Microorganism: *Bacillus atrophaeus* ATCC® 9372, *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours, 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017, ISO 11138-3:2017, ISO 11138-4:2017
Related products:



Biological Indicators are the right tool to assess the lethality of the sterilization cycle, ensuring maximum safety in the process.

24 h Biological Indicator for steam

SKU: BT20
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
Related products:





Sterilization monitoring | Steam

With Biological Indicators, the lethality of the sterilization cycle can be assessed, ensuring maximum safety in the process.

20 min Biological Indicator for steam

SKU: BT224
Brand: Bionova®
Category: Biological Indicators, Rapid Fluorescence
Process: steam
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 20 minutes
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
 ↳ **FDA-cleared**
Related products:



Accelerate sterility assurance with fluorescence indicators for fast, reliable results when time matters.

1 h Biological Indicator for steam

SKU: BT222
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 1 hour
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
 ↳ **FDA-cleared**
Related products:



3 h Biological Indicator for steam

SKU: BT220
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 3 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
 ↳ **FDA-cleared**
Related products:





Sterilization monitoring | Steam

Reliable liquid load sterilization monitoring with easy interpretation, no activation, and clear visual confirmation.

Self-contained spore ampoules for steam

SKU: BT21/6
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam at 121-135 °C
Initial color: ●
Final color: ●
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
Volume: 0.5 ml

SKU: BT22/6
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam at 121-135 °C
Initial color: ●
Final color: ●
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
Volume: 0.25 ml



SKU: BT23/6
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam at 121-135 °C
Initial color: ●
Final color: ●
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
Volume: 2 ml

SKU: BT24/6
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: steam at 110-121 °C
Initial color: ●
Final color: ●
Microorganism: *Bacillus subtilis* DSM 5230 - ATCC® 35021
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-3:2017
Volume: 0.6 ml



Ampoules related products:



Sterilization monitoring | Steam

Reliable pre-assembled packages for Bowie-Dick test evaluation.

Bowie-Dick Test Pack simulates 7 kg handmade pack described in EN 285

- SKU:** BD125X/2
- Brand:** Chemdye®
- Category:** Chemical Indicators
- Process:** steam
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 2 Chemical Indicator
- Cycles:** 16.9 minutes at 121 °C, 4 minutes at 132 °C and 3.5 minutes at 134 °C
- Regulations:** ISO 11140-1:2014, ISO 11140-4:2007



Bowie-Dick Test Pack ISO 11140-4:2007 compliant

- SKU:** BD125X10/2
- Brand:** Chemdye®
- Category:** Chemical Indicators
- Process:** steam
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 2 Chemical Indicator
- Cycles:** 10 minutes at 121 °C
- Regulations:** ISO 11140-1:2014, ISO 11140-4:2007



Includes an early warning sheet for proactive sterilization control

Bowie-Dick Test Pack simulates 4 kg handmade pack described in ANSI/AAMI ST79:2017

- SKU:** BD125X/1
- Brand:** Chemdye®
- Category:** Chemical Indicators
- Process:** steam
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 2 Chemical Indicator
- Cycles:** 4 minutes at 132 °C and 3.5 minutes at 134 °C
- Regulations:** ISO 11140-1:2014, ISO 11140-5:2007
- ↳ **FDA-cleared**





Sterilization monitoring | Steam

Multivariable chemical indicator for steam

SKU: CD29
Brand: Chemdye®
Category: Chemical Indicators
Process: steam
Initial color: ●
Final color: ●
Indicator type: Type 4 Chemical Indicator
Regulations: ISO 11140-1:2014
 ↪ **FDA-cleared**



Self-adhesive label indicator for automatic labeler

SKU: CD23
Brand: Chemdye®
Category: Chemical Indicators
Process: steam
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014



Related products:

Self-adhesive label indicator for steam

SKU: CD28
Brand: Chemdye®
Category: Chemical Indicators
Process: steam
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014



Self-adhesive indicator tape for steam

SKU: CT22
Brand: Cintape®
Category: Chemical Indicators
Process: steam
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014





Sterilization monitoring | Steam

Chemical integrators for effective monitoring of operating parameters within your load.

Moving front Integrator for steam

- SKU:** IT26-C
- Brand:** Integron®
- Category:** Chemical Indicators
- Process:** steam processes between 118-138 °C
- Indicator type:** Type 5 Chemical Indicator
- Regulations:** ISO 11140-1:2014
- ↳ **FDA-cleared**



Ensuring comprehensive monitoring of all critical sterilization parameters for optimal process efficacy.

3 Point Emulator indicator for steam

- SKU:** IT28
- Brand:** Integron®
- Category:** Chemical Indicators
- Process:** steam
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 6 Chemical Indicator
- Cycles:** 3.5 minutes at 134 °C and 15 minutes at 121 °C
- Regulations:** ISO 11140-1:2014



Chemical Integrator for steam

- SKU:** IT26-1YS
- Brand:** Integron®
- Category:** Chemical Indicators
- Process:** steam processes between 121-135 °C
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 5 Chemical Indicator
- Regulations:** ISO 11140-1:2014
- ↳ **FDA-cleared**





Sterilization monitoring | Steam

Emulator Indicators for steam

SKU: IT27-3YS

Brand: Integron®

Category: Chemical Indicators

Process: steam

Initial color: ●

Final color: ●

Indicator type: Type 6 Chemical Indicator

Cycles: 3 minutes at 134 °C

Regulations: ISO 11140-1:2014



SKU: IT27-4YS

Brand: Integron®

Category: Chemical Indicators

Process: steam

Initial color: ●

Final color: ●

Indicator type: Type 6 Chemical Indicator

Cycles: 4 minutes at 134 °C

Regulations: ISO 11140-1:2014



SKU: IT27-5YS

Brand: Integron®

Category: Chemical Indicators

Process: steam

Initial color: ●

Final color: ●

Indicator type: Type 6 Chemical Indicator

Cycles: 5 minutes at 134 °C and 15 minutes at 121 °C

Regulations: ISO 11140-1:2014



SKU: IT27-7YS

Brand: Integron®

Category: Chemical Indicators

Process: steam

Initial color: ●

Final color: ●

Indicator type: Type 6 Chemical Indicator

Cycles: 7 minutes at 134 °C and 20 minutes at 121 °C

Regulations: ISO 11140-1:2014



SKU: IT27-18YS

Brand: Integron®

Category: Chemical Indicators

Process: steam

Initial color: ●

Final color: ●

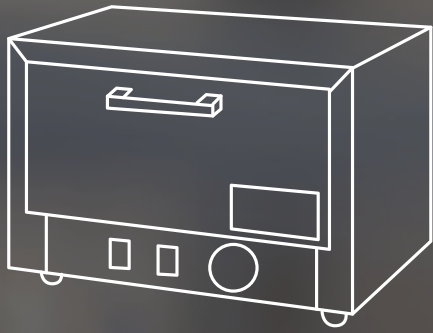
Indicator type: Type 6 Chemical Indicator

Cycles: 18 minutes at 134 °C

Regulations: ISO 11140-1:2014



Dry heat sterilization process



Experience reliable sterilization controls with our dry heat products. Utilizing protein oxidation to eliminate microorganisms, it's ideal for powders and anhydrous oils.

Variables to monitor



Temperature



Time



Sterilization monitoring | Dry heat

Verify process lethality with our spore strips and specific culture media.

Spore Strips for dry heat and EtO

SKU: BT40/6
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: dry heat, EtO
Microorganism: *Bacillus atrophaeus* ATCC® 9372
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017, ISO 11138-4:2017
Related products:



Spore Strips for dry heat, EtO, and steam

SKU: BT60
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: dry heat, EtO, steam
Microorganism: *Bacillus atrophaeus* ATCC® 9372, *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours, 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-2:2017, ISO 11138-3:2017, ISO 11138-4:2017
Related products:



Semi self-contained Biological Indicator for reliable dry heat sterilization monitoring.

48 h Biological Indicator for dry heat

SKU: BT30
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: dry heat
Microorganism: *Bacillus atrophaeus* ATCC® 9372
Population: 10⁶ Spores/carrier
Readout time: 48 hours
Regulations: ISO 11138-1:2017, ISO 11138-4:2017
Related products:





Sterilization monitoring | Dry heat

Reliable and thriving in the extreme temperatures of depyrogenation cycles.

Biological Indicator for depyrogenation

- SKU:** BT31
- Brand:** Bionova®
- Category:** Biological Indicators, Spore Ampoules
- Process:** Depyrogenation cycles
- Microorganism:** *Bacillus atrophaeus* ATCC® 9372
- Population:** 10⁶ Spores/carrier
- Readout time:** 72 hours
- Regulations:** ISO 11138-1:2017, ISO 11138-4:2017
- Related products:**



MC1030
Culture
media



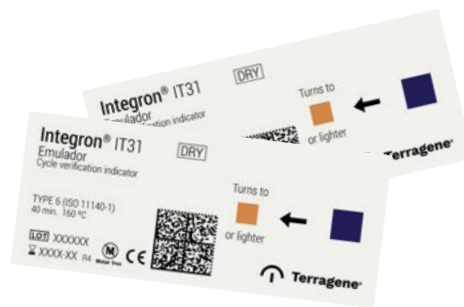
IC10/20
Incubator



ISO 11140-1:2014 compliant emulator indicator for dry heat sterilization processes.

Emulator Indicator for dry heat

- SKU:** IT31
- Brand:** Integron®
- Category:** Chemical Indicators
- Process:** dry heat
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 6 Chemical Indicator
- Cycles:** 40 minutes at 160 °C
- Regulations:** ISO 11140-1:2014





Sterilization monitoring | Dry heat

Multivariable indicators for dry heat sterilization: they react within the loads to ensure precise temperature control over time.

Multivariable chemical indicator for dry heat

SKU: CD30
Brand: Chemdye®
Category: Chemical Indicators
Process: dry heat
Initial color: ●
Final color: ●
Indicator type: Type 4 Chemical Indicator
Regulations: ISO 11140-1:2014



Our labels seamlessly stick to packs and pouches, ensuring clear and reliable tracking.

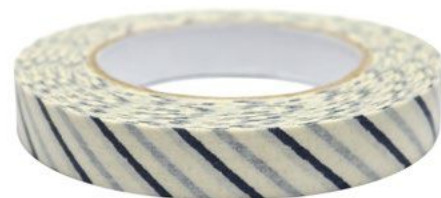
Self-adhesive label indicator for automatic labeler

SKU: CD33
Brand: Chemdye®
Category: Chemical Indicators
Process: dry heat
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014
Related products:

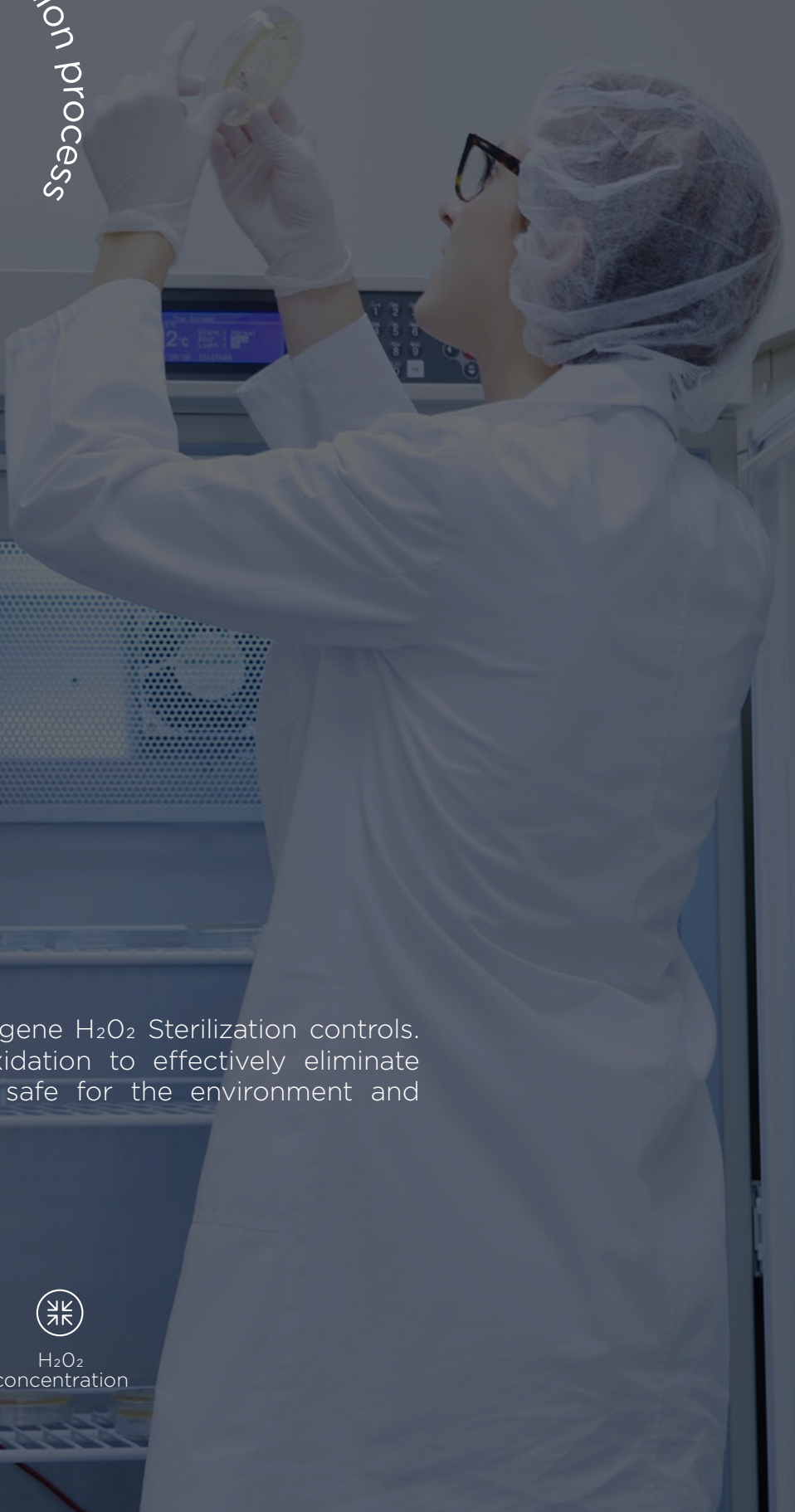
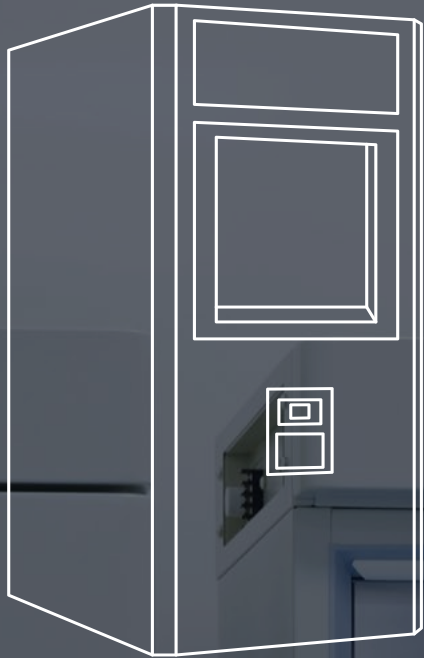


Self-adhesive indicator tape for dry heat

SKU: CT30
Brand: Cintape®
Category: Chemical Indicators
Process: dry heat
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014



H₂O₂ sterilization process



Discover the benefits of Terragene H₂O₂ Sterilization controls. This method uses protein oxidation to effectively eliminate microorganisms, while being safe for the environment and leaving no toxic residue.

Variables to monitor



Temperature



Time



Pressure



H₂O₂
concentration



Sterilization monitoring | Hydrogen peroxide

Achieve fast and reliable results with our Biological Monitoring System for sterilization processes with H₂O₂.

30 min Biological Indicator for hydrogen peroxide

SKU: BT96
Brand: Bionova®
Category: Biological Indicators, Spore Strips
Process: hydrogen peroxide
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 30 minutes
Regulations: ISO 11138-1:2017
↳ **FDA-cleared**
Related products:



Spore coupon for hydrogen peroxide

24 h Biological Indicator for hydrogen peroxide

SKU: BT91
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: hydrogen peroxide
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours
Regulations: ISO 11138-1:2017
Related products:

SKU: BT93/6
Brand: Bionova®
Category: Biological Indicators, Spore Coupon
Process: hydrogen peroxide
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 24 hours
Regulations: ISO 11138-1:2017
Related products:





Sterilization monitoring | Hydrogen peroxide

Cintape® Self-adhesive tapes: securely seal and easily identify sterilization packages with confidence.

Self-adhesive indicator tape for hydrogen peroxide



SKU: CT40
Brand: Cintape®
Category: Chemical Indicators
Process: hydrogen peroxide
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014
↳ **FDA-cleared**

Our labels seamlessly stick to packs and pouches, ensuring clear and reliable tracking.

Self-adhesive label indicator for hydrogen peroxide

SKU: CD43
Brand: Chemdye®
Category: Chemical Indicators
Process: hydrogen peroxide
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014
Related products:



Self-adhesive label indicator for hydrogen peroxide

SKU: CD48
Brand: Chemdye®
Category: Chemical Indicators
Process: hydrogen peroxide
Initial color: ●
Final color: ●
Indicator type: Type 1 Chemical Indicator
Regulations: ISO 11140-1:2014



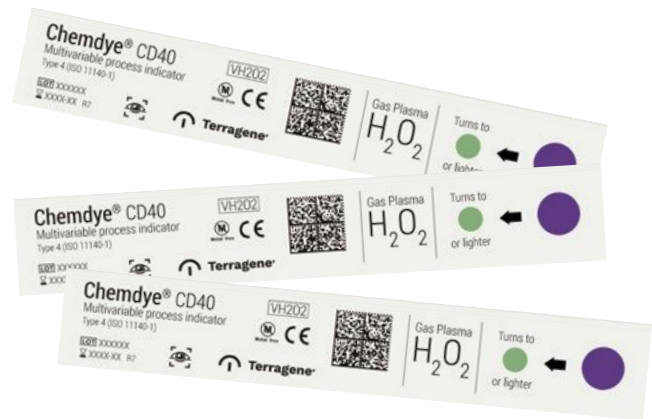


Sterilization monitoring | Hydrogen peroxide

Ensure complete sterilization with Chemdye® Type 4 strips: multivariable indicators that confirm the proper penetration of the sterilizing agent into the package.

Chemical indicator for hydrogen peroxide

- SKU:** CD40
- Brand:** Chemdye®
- Category:** Chemical Indicators
- Process:** hydrogen peroxide
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 4 Chemical Indicator
- Regulations:** ISO 11140-1:2014
- ↳ **FDA-cleared**

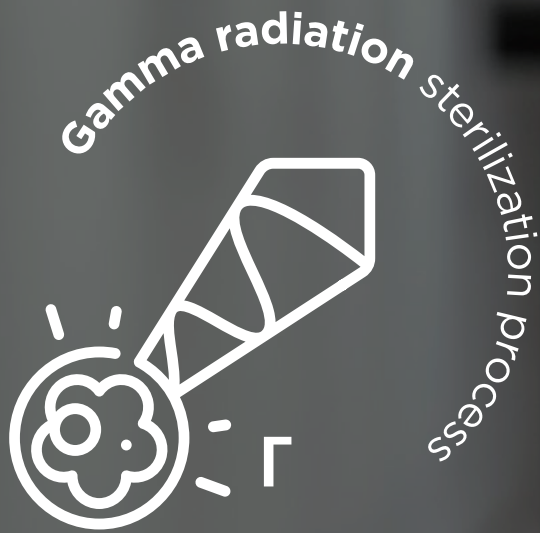


Monitor with confidence using our internal chemical indicators, ensuring proper exposure to H₂O₂.

Chemical indicator for hydrogen peroxide

- SKU:** CD42
- Brand:** Chemdye®
- Category:** Chemical Indicators
- Process:** hydrogen peroxide
- Initial color:** ●
- Final color:** ●
- Indicator type:** Type 1 Chemical Indicator
- Regulations:** ISO 11140-1:2014
- ↳ **FDA-cleared**





Elevate your controls of sterilization with gamma radiation. This clean and dry process denatures proteins and nucleic acids, ensuring complete exposure from all angles. Highly compatible with various materials and available in large chambers, it offers a reliable and effective solution for your sterilization needs.

Variables to monitor



Radiation
dose



Sterilization monitoring | Gamma radiation

Our labels seamlessly stick to packs and pouches, ensuring clear and reliable tracking.

Self-adhesive label indicator for gamma radiation

SKU: CD77

Brand: Chemdye®

Category: Chemical Indicators

Process: gamma radiation

Initial color: ●

Final color: ●

Indicator type: Type 1 Chemical Indicator

Regulations: ISO 11140-1:2014



Verify process lethality with our spore strips and specific culture media.

Spore Strips for gamma radiation

SKU: BT70/6

Brand: Bionova®

Category: Biological Indicators, Spore Strips

Process: gamma radiation

Microorganism: *Bacillus pumilus* ATCC® 27142

Population: 10⁶ Spores/carrier

Readout time: 48 hours

Regulations: ISO 11138-1:2017

Related products:



MC1020
Culture
media



IC10/20
Incubator



Culture media and compatibles chart



Culture media
MC1020

Use MC1020 with
Geobacillus stearothermophilus
or *Bacillus pumilus*



BT50

BT60



BT70

BT93



Culture media
MC1030

Use MC1030 with
Bacillus atrophaeus



BT40

BT60



























BT31

Custom Biological Indicators available on demand tailored to your needs.

Contact us today for more details at
terragine.com



Auto-readers and compatibles chart

		 Incubator IC10/20	 Auto-reader IC10/20FR	 Auto-reader IC10/20FRLCD	 Auto-reader MiniBio
	BT10	✓			
	BT20	✓			
	BT21	✓			
	BT22	✓			
	BT23	✓			
	BT24	✓			
	BT30	✓			
	BT31 w/MC1030	✓			
	BT40 w/MC1030	✓			
	BT50 w/MC1020	✓			
	BT60 w/MC1020 or MC1030	✓			
	BT70 w/MC1020	✓			
	BT91	✓			
	BT93 w/MC1020	✓			
	BT96		✓	✓	✓
	BT97		✓	✓	✓
	BT110		✓	✓	✓
	BT220		✓	✓	✓
	BT222		✓	✓	✓
	BT224		✓	✓	✓

Cleaning monitoring

- ↳ Washing
- ↳ Hygiene

Washing process



Ensure effective cleaning with our specialized controls. Designed to verify instrument cleanliness, our solutions guarantee reliable and precise washing cycles. Trust us for accurate verification and results that meet the highest standards.





Cleaning monitoring | Washing

Precision-engineered for seamless control and monitoring, enhancing the effectiveness of ultrasonic cavitation process.

Indicator for ultrasonic cavitation performance

- SKU:** CDWU
- Brand:** Chemdye®
- Category:** Thermosinfection and washing control
- Process:** Cleaning and thermosinfection
- Initial color:** ●
- Cavitation failures:** ●
- Correct cavitation:** ●
- Related products:**



Optimal cleaning with Splat Indicators: stable at disinfection temperatures and designed to monitor every parameter in your washer-disinfectors and ultrasonic machines.

High challenge Splat washing indicator

- SKU:** CDWA3
- Brand:** Chemdye®
- Category:** Thermosinfection and washing control
- Process:** Cleaning and Thermosinfection
- Initial color:** ●
- Related products:**



Very high challenge Splat washing indicator

- SKU:** CDWA4
- Brand:** Chemdye®
- Category:** Thermosinfection and washing control
- Process:** Cleaning and Thermosinfection
- Initial color:** ●
- Related products:**





Cleaning monitoring | Hygiene

Don't just clean, verify. Meet the hygiene standard: accurate protein quantification for optimal hygiene monitoring.

Designed to detect and quantify proteins with high sensitivity on surfaces and difficult-to-access areas after the cleaning process

SKU: PRO1 MICRO

Brand: Chemdye®

Category: Hygiene monitoring

Readout time: 4 minutes with MiniPro and 7 minutes with IC10/20FR or IC10/20FRLCD

Related products:



MiniPro Auto-reader



IC10/20FR Auto-reader



IC10/20FRLCD Auto-reader



Qualitative visual reading of color change indicates detectable levels of protein. No need for incubation with Auto-reader.

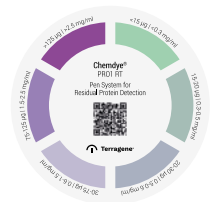
Designed to detect proteins on surfaces and solutions

SKU: PRO1 RT

Brand: Chemdye®

Category: Hygiene monitoring

Readout time: 10 minutes at room temperature



Environmental disinfection

↳ UV-C

↳ Hydrogen peroxide



Disinfection process | Environmental

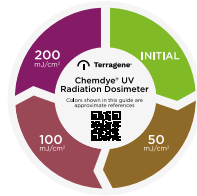
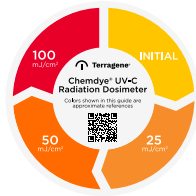
Ensure reliable disinfection with our Chemical Dosimeter Indicator, designed to monitor UV-C disinfection system.

UV dosimeter for UV-C radiation disinfection-100

SKU: CD87-100
Brand: Chemdye®
Category: Chemical Indicators
Process: Room and surface biodecontamination
Initial color: ●
Final color: ●
Conditions: radiation dose ≥ 25 mJ/cm²

UV dosimeter for UV-C radiation disinfection-200G

SKU: CD87-200G
Brand: Chemdye®
Category: Chemical Indicators
Process: Room and surface biodecontamination
Initial color: ●
Final color: ●
Conditions: radiation dose ≥ 50 mJ/cm²



Achieve fast, reliable results with our VH₂O₂ Airborne Disinfection Biological Monitoring System.

1 h Biological Indicator for room disinfection with H₂O₂

SKU: BT97
Brand: Bionova®
Category: Biological Indicators, Self-contained
Process: Room disinfection
Microorganism: *Geobacillus stearothermophilus* ATCC® 7953
Population: 10⁶ Spores/carrier
Readout time: 1 hour

Related products:



Accessories



Accessories

Fast, safe, and easy to use: our Auto-readers and incubators provide quick and accurate results.

Touchscreen Fluorescence Auto-reader for Biological Indicators

SKU: IC10/20FRLCD

Brand: Bionova®

Working temperature: 37 ± 2 °C, 60 ± 2 °C

Characteristics:

- ↳ 12 positions to incubate Rapid, Super Rapid, and Ultra Rapid Biological Indicators and 1 position to incubate Protein Pen.
- ↳ Remote display of each reading status in PC and Smartphones.
- ↳ Thermal printer of results. Stores 208 results.
- ↳ Ethernet connection. for recording results on PC using a Readout and Traceability software.
- ↳ **FDA-cleared**



Dual Incubator

SKU: IC10/20

Brand: Bionova®

Working temperature:
37 ± 2 °C, 60 ± 2 °C

Characteristics:

- ↳ 26 positions to incubate BI and 10 positions to incubate culture media and protein pen.



Fluorescence Auto-reader

SKU: IC10/20FR

Brand: Bionova®

Working temperature: 37 ± 2 °C, 60 ± 2 °C

Characteristics:

- ↳ 12 positions to incubate Rapid, Super Rapid, and Ultra Rapid Biological Indicators and 1 position to incubate Protein Pen.
- ↳ Thermal printer of results. Stores 12 results.
- ↳ USB connection for recording results on PC using a Readout and Traceability software.
- ↳ **FDA-cleared**





Accessories

Compact, fast, and easy to use: Our auto-readers offer efficient solutions for both hygiene monitoring systems and Biological Indicator readings.

MiniBio Auto-reader for Biological Indicators

SKU: MINIBIO

Brand: Bionova®

Working temperature: 37 ± 2 °C, 60 ± 2 °C

Characteristics:

- ↳ 3 positions to incubate Rapid, Super Rapid, and Ultra Rapid Biological Indicators.
- ↳ Thermal printer of results.
- ↳ USB connection for recording results on PC using a Readout and Traceability software.
- ↳ **FDA-cleared**



MiniPro Auto-reader for Hygiene monitoring system

SKU: MINIPRO

Brand: Bionova®

Process: Hygiene Monitoring

Characteristics:

- ↳ 3 positions for incubation and transmittance readout of hygiene indicators.
- ↳ Thermal printer of results.
- ↳ USB connection for recording results on PC using a Readout and Traceability software.



Three line automatic labeler

SKU: CG3

Brand: Chemdye®

To use with: CD13, CD23, CD33, and CD43 labels





Products presentation chart

PRODUCT	DESCRIPTION	UNITS/PACKAGING
BD125X-1	Bowie-Dick Test Pack	20 units per box
BD125X-2	Bowie-Dick Test Pack	20 units per box
BD125X10-2	Bowie-Dick Test Pack	20 units per box
BT10 x30	48 h Biological Indicator for EtO	30 units per box
BT10 x100	48 h Biological Indicator for EtO	100 units per box
BT20 x30	24 h Biological Indicator for steam	30 units per box
BT20 x100	24 h Biological Indicator for steam	100 units per box
BT21	Self-contained spore ampoule for steam	200 units + 20 negative controls per box
BT22	Self-contained spore ampoule for steam	200 units + 20 negative controls per box
BT23	Self-contained spore ampoule for steam	50 units + 5 negative controls per box
BT24	Self-contained spore ampoule for steam	200 units + 20 negative controls per box
BT30	48 h Biological Indicator for dry Heat	50 units per box: 25 tubes A + 25 tubes B
BT31	Spore ampoule for dry Heat	50 units per box
BT40	Spore strip for EtO and dry Heat	100 units per aluminium foil bag
BT50	Spore strip for steam	100 units per aluminium foil bag
BT60	Spore strip for EtO, steam, and dry heat	100 units per bag
BT70	Spore strip for gamma radiation	100 units per aluminium foil bag
BT91	24 h Biological Indicator for VH ₂ O ₂	100 units per box
BT93	Spore coupon for hydrogen peroxide	100 units per aluminium foil bag
BT96	30 min. Biological Indicator for VH ₂ O ₂	50 units per box
BT97	1 h Biological Indicator for H ₂ O ₂	50 units per box: 25 tubes A + 25 tubes B
BT97-H	Biological Indicator holder for room disinfection	1 unit per box
BT110	4 h Biological Indicator for EtO	50 units per box
BT220	3 h Biological Indicator for steam	50 units per box
BT222	1 h Biological Indicator for steam	50 units per box
BT224	20 min. Biological Indicator for steam	50 units per box
CD13	Self-adhesive label indicator for EtO	1 roll with 750 labels per foil bag or 12-roll boxes
CD16	Multivariable chemical indicator for EtO	250 strips per aluminium foil bag
CD17	Self-adhesive label indicator for EtO	1 roll with 1000 labels per aluminium foil bag
CD23	Self-adhesive label indicator for steam	1 roll with 750 labels per foil bag or 12-roll boxes
CD28	Self-adhesive label indicator for steam	1 roll with 1000 labels per bag
CD29	Multivariable chemical indicator for steam	250 double strips per aluminium foil bag
CD30 x250	Multivariable chemical indicator for dry heat	250 strips per aluminium foil bag
CD30 x500	Multivariable chemical indicator for dry heat	500 strips per aluminium foil bag



CD33	Self-adhesive label indicator for dry heat	1 roll w/750 labels per foil bag/12-roll boxes
CD40 x250	Chemical indicator for VH_2O_2	250 strips per aluminium foil bag
CD40 x500	Chemical indicator for VH_2O_2	500 strips per aluminium foil bag
CD42 x250	Chemical indicator for VH_2O_2	250 strips per aluminium foil bag
CD42 x500	Chemical indicator for VH_2O_2	500 strips per aluminium foil bag
CD43	Self-adhesive label indicator for VH_2O_2	1 roll w/750 labels per foil bag/12-roll boxes
CD48	Self-adhesive label indicator for VH_2O_2	1 roll with 1000 labels per bag
CD77	Self-adhesive label indicator for gamma	1 roll with 1000 labels per bag
CD87-100	UV dosimeter for UV-C radiation disinfection	200 labels per roll in individual bags
CD87-200G	UV dosimeter for UV-C radiation disinfection	1000 labels per roll in individual bags
CDWA3	Splat Washing indicator	200 units per aluminum foil bag
CDWA4	Splat Washing indicator	200 units per aluminum foil bag
CDWA-H	Holder for washing indicators	1 unit per box
CDWU x6	Indicator for ultrasonic cavitation tests	6 units per box
CDWU x30	Indicator for ultrasonic cavitation tests	30 units per box
CDWU-H	Holder for Ultrasonic Cleaning Indicator	10 units per box
CG3	Three line automatic labeler	1 labelling device and 1 ink roller per box
CT10	Self-adhesive indicator tape for EtO	1 roll of 50 m x 18 mm
CT22	Self-adhesive indicator tape for steam	1 roll of 50 m x 18 mm
CT30	Self-adhesive indicator tape for dry Heat	1 roll of 50 m x 18 mm
CT40	Self-adhesive indicator tape for VH_2O_2	1 roll of 50 m x 20 mm
IC10/20	Dual incubator for Biological Indicators	1 unit per box
IC10/20FR	Auto-reader	1 unit per box
IC10/20FRLCD	Auto-reader	1 unit per box
IT12	Chemical Integrator for EtO	250 units per aluminum foil bag
IT26-1YS x200	Chemical Integrator for steam	200 strips per aluminium foil bag
IT26-1YS x500	Chemical Integrator for steam	500 strips per aluminium foil bag
IT26-C	Chemical Integrator for steam	250 units per aluminum foil bag
IT27-3YS	Emulator Indicator for steam	200 units per aluminum foil bag
IT27-4YS	Emulator Indicator for steam	200 units per aluminum foil bag
IT27-5YS	Emulator Indicator for steam	200 units per aluminum foil bag
IT27-7YS	Emulator Indicator for steam	200 units per aluminum foil bag
IT27-18YS	Emulator Indicator for steam	200 units per aluminum foil bag
IT28	3 Point Emulator indicator for steam	250 units per aluminum foil bag
IT31	Emulator Indicator for dry heat	250 units per aluminum foil bag
MC1020	Culture media	50 units per box
MC1030	Culture media	50 units per box
MINIBIO	Auto-reader	1 unit per box
MINIPRO	Auto-reader	1 unit per box
PRO1MICRO x20	Pen system for quantification of surface proteins	20 units per box
PRO1MICRO x100	Pen system for quantification of surface proteins	100 units per box
PRO1 RT	Pen system for quantification of surface proteins	20 units per box

OEM
DEVELOPMENT DIVISION



YOUR BRAND, OUR INNOVATION

At Terragene, we understand that every brand has a unique vision. Our **OEM (Original Equipment Manufacturer)** and **Private Label** services provide tailored solutions to elevate your brand with high-quality products. Whether you're looking to develop products under your own brand or need a reliable manufacturing partner, we're here to turn your vision into reality.

HEALTHCARE, DENTAL, INDUSTRIES, PHARMA.

**Efficiency, quality, and advanced
technology at your fingertips.**

CONTACT US



This brochure is for informational purposes only and does not constitute an offer, warranty, or representation regarding the regulatory status of the products in any particular jurisdiction. For information on the regulatory status of specific products in your country, please contact Terragene for guidance or consult with local regulatory authorities.

