



AXIS BIOLOGICAL INDICATORS

for sterilization control



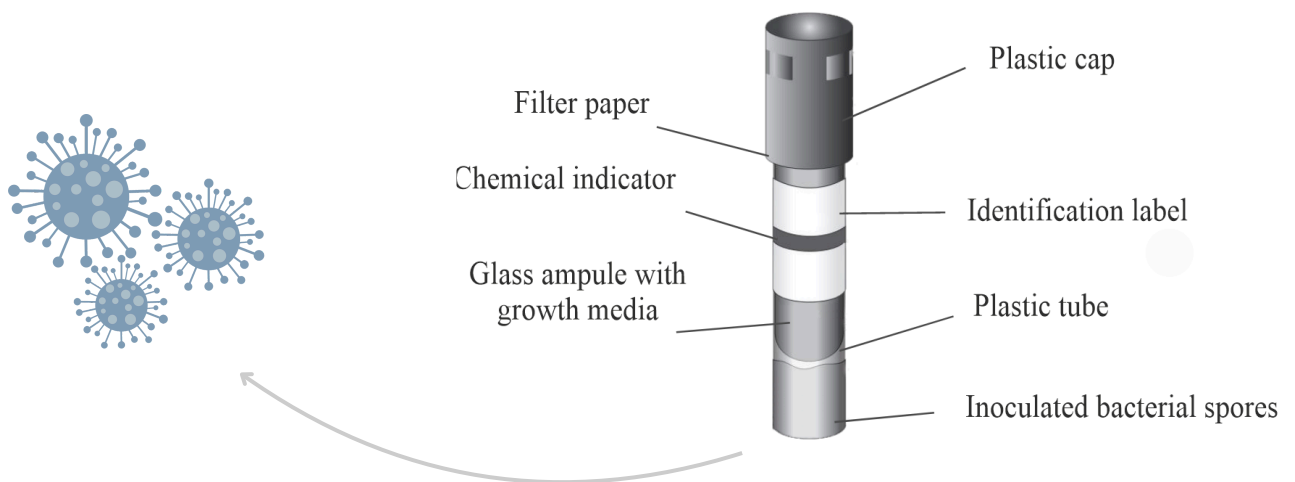
What is Biological Indicator?

Biological Indicators are specifically designed for monitoring the efficacy of Steam, Ethylene Oxide, Formaldehyde, Dry Heat and Plasma sterilization processes.

The biological indicator typically contains spores from bacteria which are known for their resistance to sterilization methods.

The BI is placed in the sterilizer along with the items being sterilized. After the sterilization process, the BI is incubated under specific conditions (temperature and time) to check if the spores have survived.

Inside glass ampoule for Steam, Formaldehyde and Plasma Indicators there are *Geobacillus stearothermophilus* ATCC® 7953™ spores, for Ethylene Oxide, Dry Heat *Bacillus atrophaeus* spores that are most resistant spores to a particular sterilization process.



How to Use Axis Biological Indicators

Choose the correct BI type based on the sterilant (Steam, EO, Dry Heat, Formaldehyde, H₂O₂).

Place the BI inside the sterilizer with the load.

Run the sterilization cycle as instructed.

After the cycle, remove the BI and let it cool.

Check the chemical indicator for color change (shows sterilant contact only).

For Rapid BIs (AX110, AX220, etc.), keep the cap closed and break the ampoule only after sterilization using the incubator.

Incubate the BI using the appropriate incubator:

AXRD-100: Automatic result with fluorescence.

AXDL-100: Visual reading needed.



For STEAM Sterilization Control



AXIS self-contained steam biological indicators are designed to monitor the steam sterilization process. They contain bacterial spores on a filter paper inside a plastic tube with a cap. Inside the tube, a sealed glass ampoule holds a special culture medium that changes color when spores grow. They are placed in the sterilization chamber with the materials, packaged appropriately for the process.

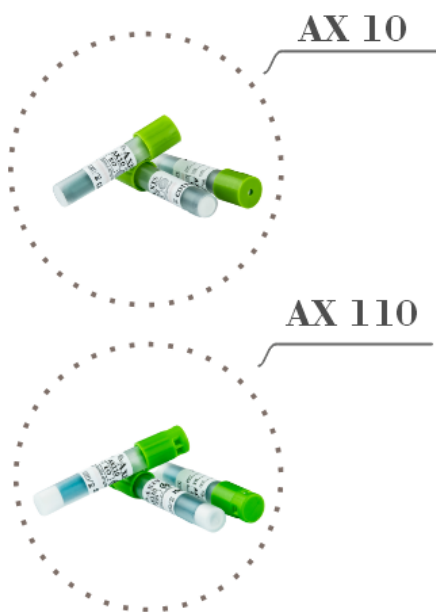
Code	Organism	Process	Result	Packing	Incubator
AX20	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	24 hr	100 pcs	AXDL-100
AX220	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	3 hr	50 pcs	AXRD-100 AXRM-100
AX222	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	1 hr	50 pcs	AXRD-100 AXRM-100
AX224	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	20 min	50 pcs	AXRD-100 AXRM-100
AX225	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	1 min	50 pcs	AXRD-100 AXRM-100
AX226	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	7 sec	50 pcs	AXRD-100 AXRM-100



AXIS Dual Incubators are specially designed for use with Biological Indicators. They support multiple temperature settings for Steam, Plasma, Formaldehyde, Ethylene Oxide, and Dry & Moist Heat sterilization processes. For Steam, Plasma, and Formaldehyde: operate at 60°C
For EO, Dry, and Moist Heat: operate at 37°C
Available for either 120 V or 220 V electric supply.

For EO Sterilization Control

Code	Organism	Process	Result	Packing	Incubator
AX10	<i>Bacillus atrophaeus</i> ATCC® 9372™	Eto	48 hr	100 pcs	AXDL-100
AX110	<i>Bacillus atrophaeus</i> ATCC® 9372™	Eto	4 hr	50 pcs	AXRD-100 AXRM-100

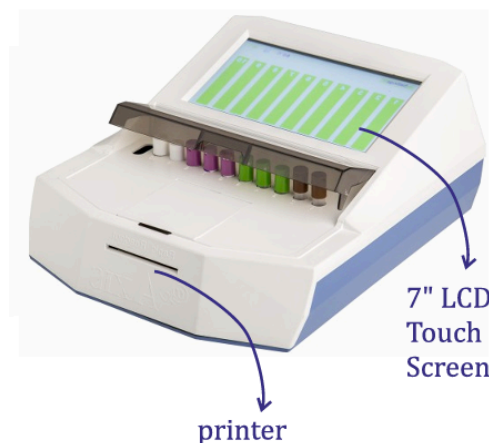


AXIS self-contained biological indicators were developed to control the Ethylene Oxide sterilization process. The biological indicator contains bacterial spores on a filter paper carrier, packaged within a plastic tube and a cap. Inside the tube, there is a sealed-glass ampoule of specially-formulated culture medium containing a color indicator that changes color when spores grow.

The biological indicators should be placed in an appropriate package along with the materials to be sterilized and then put into the sterilization chamber, according to proper sterilization practice.

AXIS Dual Incubators are designed for use with Biological Indicators, offering multiple temperature settings compatible with Steam, Plasma, Formaldehyde, Ethylene Oxide, and Dry & Moist Heat sterilization processes.

They operate at 60°C for Steam, Plasma, and Formaldehyde, and at 37°C for EO, Dry, and Moist Heat. Models are available for both 120 V and 220 V power supply.



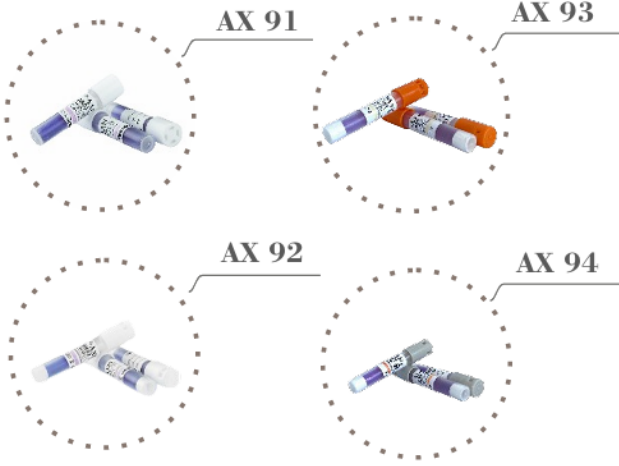
Order Code: AXRD-100



Order Code: AX-60

AXIS EtO Gas Sterilizers, with capacities ranging from 60 to 9000 liters, help users sterilize all kinds of heat-resistant materials. You can control your sterilization process using AXIS Biological and Chemical Indicators.

For Plasma Sterilization Control



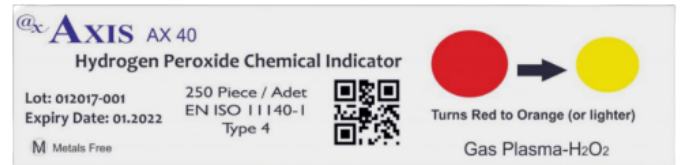
AXIS self-contained biological indicators were developed to control the steam sterilization process. The biological indicator contains bacterial spores on a filter paper carrier, packaged within a plastic tube and a cap. Inside the tube, there is a sealed-glass ampoule of a specially-formulated culture medium containing a color indicator that changes color when spores grow.

The biological indicators should be placed in an appropriate package along with the materials to be sterilized and then put into the sterilization chamber, according to proper sterilization practice.

Code	Organism	Process	Result	Packing	Incubator
AX91	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	24 hr	100 pcs	AXDL-100
AX92	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	4 hr	50 pcs	AXRD-100 AXRM-100
AX93	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	20 min	50 pcs	AXRD-100 AXRM-100
AX94	<i>Geobacillus stearothermophilus</i> ATCC® 7953™	Steam	Instant	50 pcs	AXRD-100 AXRM-100



Order Code: AXRD-100



Order Code: AX40



Order Code: AXSI-40

Axis Hydrogen Peroxide strip and spot chemical indicators provide effective sterilization control over exposure. All indicator inks are made from metal free and non-toxic materials. There is also a Hydrogen Peroxide chemical indicator available on the each Biological Indicator vials for to check sterilant exposure.

KORDON

Tıp Sağlık Araç ve Gereçleri

Manufacturer: KORDON TIP SAGLIK ARAC GERECLERI

PROJ. MUH. ITH.SAN. VE TIC.LTD.STI.




























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AXIS RAPID BIOLOGICAL INDICATOR REFERENCE CHART

Code	Temperature	Time	Medium Color	N (-)	P (+)
<i>AX110</i> <i>EO</i>	37°C	4 hr			
<i>AX220</i> <i>Steam</i>	60°C	3 hr			
<i>AX222</i> <i>Steam</i>	60°C	1 hr			
<i>AX224</i> <i>Steam</i>	60°C	20 min			
<i>AX225</i> <i>Steam</i>	60°C	1 min			
<i>AX226</i> <i>Steam</i>	60°C	7 sec			
<i>AX92</i> <i>Plasma</i>	60°C	4 hr			
<i>AX93</i> <i>Plasma</i>	60°C	20 min			
<i>AX94</i> <i>Plasma</i>	60°C	Instant			

A processed BI with a positive result (YELLOW) indicates a failure in the sterilization process. USE AXRD-100 RAPID INCUBATOR TO INCUBATE RAPID BI'S.

**Available in different populations, packaging, and configurations.
Custom BI's are also available.**

AXIS BIOLOGICAL INDICATOR COLOR CONVERSION CHART

Code	Temperature	Time	Medium Color	N (-)	P (+)
<i>AX10 EO</i>	37°C	48 hr			
<i>AX91 PLASMA</i>	60°C	24 hr			

**A processed BI with a positive result (YELLOW) indicates a failure in the sterilization process. USE
AXRD-100 RAPID INCUBATOR TO INCUBATE RAPID BI'S.**

**Available in different populations, packaging, and configurations.
Custom BI's are also available.**