

Why Cryoguard?

Cryoguard Indicators continuously monitor heat sensitive material during storage, transportation, and routine handling by laboratory personnel and customs inspectors.

Cryoguard Indicators can provide a hassle free alternative to data loggers.

Cryoguard Indicators fit in freezer box partitions, on freezer canes, in cryovials, or can be wired to perishables.

Cryoguard Indicators:

- When green assure the efficacy of heat sensitive specimens
- Encourage proper handling of your heat sensitive materials
- Assure that adhesives, biologics, cell therapy products and other heat sensitive materials never suffered potentially damaging thermal exposure

New Customers

Try our risk-free Starter Kit to see how useful Cryoguard Indicators truly are. It includes:

- A box of 10 indicators of the same model,
- A \$15 shipping credit, and
- A 60 day money back guarantee if for any reason the indicators do not meet your needs

Cryoguard™ Freezer Boxes

When placed in a cell behind an opening, indicators fit nicely in our custom freezer boxes for monitoring heat sensitive materials. The indicator can be viewed without removing the box from storage or even opening it. Thus indicators provide assurance, when they remain green, that the samples within were not damaged during a power failure, during removal from the freezer, or during shipping.

Freezer boxes are bought with indicators so that for every freezer box purchased there is also one indicator.



CRYOGUARD™
CORPORATION

Thermal Exposure Indicators

Monitoring Thermal
Exposure from -40°C to
-150°C

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Cryoguard Thermal Exposure Indicators



Each indicator is a chemical formulation sealed in a plastic vial that is approximately 1/2" in diameter and 1" tall. The indicator when green verifies, in real time, that monitored heat labile material has never suffered damaging thermal exposure.

How to Use the Indicator

Activate the indicator by depressing the pin after freezing it at a temperature that is at least 25°C below its signal temperature. At this temperature, the indicator remains green.

The indicator irreversibly changes color from green to red at its signal temperature within 1-2 hours and within minutes at 10°C - 15°C above it. Thereby providing instantaneous information about the efficacy of the materials. Thus,

- A green indicator can tell you that the monitored material never suffered any damaging thermal exposure and is safe to use.
- An indicator with red or colorless area can tell you that the monitored material may have suffered potentially damaging thermal exposure.

Selecting a Model

We offer six indicator models which differ with respect to signal temperature.

Select a model having a signal temperature that is:
a) equal to or lower than the maximum temperature designated for the monitored material, and b) at least 25°C higher than that of the environment used for shipping/storage (as stipulated in the table below).

Doing so ensures that the monitored material is safe to use when the indicator is green. For example:

The M-150 indicator is used to monitor vitrified products that need to be kept at or below -150°C that are shipped/stored in liquid nitrogen (-196°C).

The M-40 indicator is used to monitor products shipped/stored in dry ice (-78°C) that need to be kept at or below -40°C.

Product	Signal Temperature	Shipping/Storage Temperature
M-40	-40°C	-65°C or lower
M-70	-70°C	-95°C or lower
M-100	-100°C	-125°C or lower
M-120	-120°C	-145°C or lower
M-135	-135°C	-160°C or lower
M-150	-150°C	-175°C or lower

The products listed above are sold in boxes of 10, 25, and 50 indicators. For pricing and other information please visit our website at www.cryoguard.com

The Activation Tool

The Cryoguard Activation Tool is designed to assist in the activation process of the Cryoguard Thermal Exposure Indicator. It makes the activation process quicker and minimizes thermal exposure of the indicators during activation.



The tool which is required for activating the M-135 and the M-150 indicators enables activation of an indicator on a freezer cane.



How to Order

Select the best model for your application and place your order online, by phone, or by fax.