

BUGTAG™

Sterile Insect Technique Irradiation Indicator

PRODUCT INFORMATION

The BugTag™ Sterile Insect Technique Irradiation Indicator, an innovative irradiation indicator can tell you more than just “yes” or “no”. It can indicate that the product received at least the minimum dose required (for the insect of concern).

Simply confirm the sensitive dot is blue for a “yes/no” answer and if desired, that the blue dot is the same as or darker than the minimum reference colour.

IT'S THAT SIMPLE

The BugTag™ SIT Irradiation Indicator is placed on the container prior to irradiation. The sensitive portion of the indicator is white initially and changes to a blue colour upon exposure to ionizing radiation; the shade of blue is an approximation of the amount of radiation dose delivered. The colour change is immediate and permanent and does not require any further processing or development. The amount of colour change has been optimized to give a clear indication that the Sterile Insect Technique has been processed at levels of irradiation optimal for each insect as determined by the industry.

Remember: the BugTag™ SIT Irradiation Indicator should not be considered a radiation dosimeter, but rather a semi-quantitative indicator of radiation dose.

BugTag™ SIT Irradiation Indicators are manufactured by RadTag Technologies Inc.



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GUIDELINES FOR USE

Storage:

To maintain product viability, BugTag™ SIT Irradiation Indicators should be stored at a safe distance from all sources of penetrating radiation, which include gamma rays, x-rays and electron beams.

To avoid exposure of un-irradiated indicators to direct and indirect sunlight, ultra-violet radiation and heat, it is recommended that the indicators be stored in a refrigerator or freezer with temperature range of +4°C to -20°C.

Use:

1. Remove required number of indicators from box.
2. Replace box and its contents in the refrigerator or freezer.
3. Ensure the central dot is white prior to irradiation.
4. Print required information on the indicator.
5. Attach indicator to container to be irradiated.
6. Perform irradiation.
7. After irradiation, confirm that the sensitive dot has turned blue (for a yes/no answer) or when using the color reference system, the dot is the same as or darker than the minimum reference colour on the indicator.