Sterility Indicator ⇒ Define the efficiency of any Sterilisation process.

Physical Ind. | Chemical Ind. | Biological Ind.

(a) Physical Ind. → The display on the sterilizer or we can say a recording device that print the parameter like temp. & press. associated with each sterilisation cycle. (This Indicator are Consider as Phys. Ind.).

The Correct reading of the Physical Indicator do not Guaranty Sterilisation.

⇒ But if Incorrect → Indication problm. with Sterilisation Cycle & load May not be sterilise.

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Method	Device
(a) Dry Heat Ster.	Temp. record. Chart.
(b) Moist Heat Ster.	" "
(c) Gaseous Ster.	" "
(d) Radiation Ster.	Recording Charts.
(e) Filtration Ster.	Bubble point Pressure test.

(b) Chemical Ind. ⇒ These are the Chemical Substs. used in the process of Ster. in order to Indicate that the proce of Sterilisation is going as per requirment. Or it may indic that the product are Sterile.

Change colour

Eg ⇒ Depend upon the Ster. process.

(1) The Chemical Indicator that are used dry or Moist Heat Sterilisation.

May Melt or Change its Colour only when Satisfactory Condition for Ster. prevails. This Confirm the Succesful Completion of Ster. Cycle.

(2) In Case of Gaseous Ster. Royach Sacket is Used, It is an Indicator paper which is soaked with reactive Chemical its Job is to show a colour Change & Indicate the Prevaling Condition.

(c) Biological Indicator ⟹

Here We use Standrdised Bacterial Spore used in the form of Suspension in Water or Culture Media or Its spore dried on paper or plastic (& kept in Sterilizer).

⟹ The Bacterial Spore are Selected as per the process being used for Sterilisation. Like spore of Bacillus subtilis is used as Biological Indicator in dry Heat Ster. Process to determine D-Value.

⟹ & Bacillus Thermophilus (used as an Indicator) in Moist Heat Ster.

Date ___ / ___ / ___

Method	Principle	Microorg.	Parameter
Dry Heat	Temp. Sensitive Microbes.	Bacillus subtilis	D-Value
Gaseous	"	"	"
Moist Heat.	"	Bacillus Stearo Thermophilus	"
Radiation	Radiation Sens. microbe	Bacillus pumulis.	"
Filtration	Retention of Bact.	Pycoclavelia diminuta	Size of microorg.

[DEPTH OF BIOLOGY]