

## Spore Strips - Biological Indicator

LA414, LA415 & LA416.

Spore strips for sterility testing in various sterilization environments for both Healthcare and Industrial applications.

Product Name	Product Code	Description	No. of Spores per strips	Pack Size (nos/pack)
Spore Strips - Biological Indicator	LA414	<i>B.stearothermophilus</i>	10 <sup>5</sup>	100
	LA415	<i>B.stearothermophilus</i>	10 <sup>6</sup>	100
	LA416	<i>B.subtilis</i> ( <i>B.atrophaeus</i> ) - For ETO and steam sterilization at 115 <sup>0</sup> C.	10 <sup>6</sup>	100

***B. stearothermophilus*** – (*Geobacillus stearothermophilus*) For use in steam sterilization.

***B. subtilis*** – (*Bacillus atrophaeus*) For use in Ethylene Oxide (600 mg/L), Dry Heat Sterilization (D value calculated at 160°C), and formaldehyde fumigation. For **Ethylene oxide** sterilization 54% RH, 60°C is recommended.

### Principle :

Each Spore Strips contains a population of 1x10<sup>5</sup> (LA414) / 1x10<sup>6</sup> (LA415) of *B. stearothermophilus* spores and 1x10<sup>6</sup> (LA416) of *B. subtilis* spores . Each spore strips as recommended for respective use act as sterilization indicators. The spores after exposure as specified use, gets killed indicating the efficiency of sterilization process. This is determined by studying the growth of treated spore strips in nutrient media like Soyabean casein digest medium.

### Directions :

1. Place the spore strips while sterilization to check efficiency of the process (applicable for each as above).
2. Inoculate the treated spore strips in Soyabean casein digest medium at 55°C (For LA 414/LA415) and at 35°C (for LA416) upto 7 days. Observe for growth after every 24 hours and record the results.
3. Check for presence/ absence of growth. Growth is indicated by turbidity.

### Interpretation:

Turbidity – Improper sterilization

No turbidity – Proper sterilization

### Disclaimer :



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