

TECHNICAL DATA SHEET

H.S. Vaccine Medium (Standard Nutrient Broth)

Principle

H.S. Vaccine Medium media is commonly used for large scale cultivation of bacteria for production of vaccines. The standard nutrient broth is medium composed of the peptone, special peptone and sodium chloride. Peptone and special peptone provide ample amount of the carbon and nitrogen essential and nonessential amino acids, along with the vitamins and trace minerals. Sodium chloride maintains the osmotic equilibrium of the medium.

Use: For large scale cultivation of bacteria for Vaccine production.

Contents*

Ingredients	Gram/Litre
Peptone	10.000
Special peptone#	10.000
Sodium Chloride	5.000
pH at 25°C	7.6 ±0.2

* Formula adjusted for optimum performance and parameters

Equivalent to peptic digest of lean meat infusion, solids

Directions: Dissolve 25.00 grams in 1000 ml distilled water. Boil to dissolve the medium completely and distribute aseptically. Sterilize by autoclaving at 15 lbs pressure (121 °C) for 15 min, cool it to 42-45 °C and inoculate desired organism aseptically.

Specimens' types analyzed

Isolated microorganism from non-clinical and clinical samples etc.

Precautions to be taken

These microbial media are intended for the in-vitro use only. All the handling, experiments, storage, and discarding should be performed with the help of skilled and knowledgeable technicians and as per the established guidelines. The material should be disposed only after proper sterilization by autoclaving. Please go through the MSDS of the media to avoid any accidents or in emergency.

OXFORD LAB FINE CHEM LLP

ISO 9001-2008 Certified Company

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Performance and Evaluation

The expected performance of the medium is liable to use as per the direction on the label when stored at optimum conditions and within expiry date.

Quality Control

Appearance	Beige colored free flowing, homogeneous powder
Reaction of 2.5% solution	7.6 $\pm$ 0.2 at 25 °C
pH	7.40- 7.80
Color and clarity of ready medium	Pale yellow colored clear to slightly opalescent solution.
Growth Promotion properties	Best at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Indicative properties	Optimum at $\leq$ 100 CFU at 32-37 °C for 18-48 h
Negative control	Performed using sterile distilled water

Different Microbial Response

Cultural characteristics observed after incubation at 35-37°C for 18-48 hours.

Organism	ATCC	Inoculum	Growth
<i>Escherichia coli</i>	8739	50-100	Luxurious
<i>Salmonella typhi</i>	14028	50-100	Fair- Good
<i>Bacillus spizizenii</i>	6633	50-100	Luxurious
<i>Staphylococcus aureus</i>	25923	50-100	Luxurious

Storage and Shelf Life: The product is highly hygroscopic; keep the container tightly closed at all times and store it properly as per the conditions mentioned on the label. The declared expiry is valid only when stored as per the conditions mentioned on the label.

Note: Sterilize media immediately after reconstitution.

Disposal: To avoid the contamination or propagation of any hazardous microbes the used, unusable or modified preparation of this product must be disposed after autoclaving after completion of task.

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Reference

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