

## TM 298 - STANDARD NUTRIENT BROTH (H.S VACCINE MEDIUM)

### INTENDED USE

For large scale cultivation of bacteria for vaccine production.

### PRODUCT SUMMARY AND EXPLANATION

Standard nutrient broth (h. s vaccine medium) is a highly nutritive medium recommended for large scale cultivation of bacteria for production of vaccines.

### COMPOSITION

Ingredients	Gms / Ltr
Peptone	10.000
Peptic digest of lean meat infusion, solids	10.000
Sodium chloride	5.000

### PRINCIPLE

Peptone is the principal source of organic nitrogen while Peptic digest of lean meat infusion, solid provides carbohydrates, vitamins, organic nitrogen compounds and salts. Sodium chloride maintains osmolality of the medium.

### INSTRUCTION FOR USE

- Dissolve 25 grams in 1000 ml distilled water.
- Heat if necessary to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.
- Cool to 45-50°C.

### QUALITY CONTROL SPECIFICATIONS

- Appearance of Powder** : Cream to light yellow homogeneous free flowing powder.  
**Appearance of prepared medium** : Amber coloured clear solution without any precipitate.  
**pH (at 25°C)** : 7.6±0.2

### INTERPRETATION

Cultural characteristics observed after an incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
<i>Klebsiella aerogenes</i>	13048	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Escherichia coli</i>	25922	50-100	Good-luxuriant	35-37°C	18-48 Hours



<i>Salmonella</i> Typhi	6539	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Staphylococcus aureus</i> subsp. aureus	25923	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Staphylococcus epidermidis</i>	12228	50-100	Good-luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good-luxuriant	35-37°C	18-48 Hours

**PACKAGING:**

In pack size of 500 gm bottles.

**STORAGE**

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.













**Product Deterioration:** Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

**DISPOSAL**

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

**REFERENCES**

1. Isenberg, H.D. Clinical Microbiology Procedures Handbook 2<sup>nd</sup> Edition.
2. Jorgensen, J.H., Pfaller, M.A., Carroll, K.C., Funke, G., Landry, M.L., Richter, S.S and Warnock., D.W. (2015) Manual of Clinical Microbiology, 11th Edition. Vol. 1.

 GMP Good Manufacturing Practices Certified	 IVD For In Vitro Diagnostic Use	 QTY. Quantity	 LOT/ B. NO. Lot / Batch Number	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 EC REP Authorized Representative <small>MedNet GmbH Buckstrasse 10, 49163 Maenster, Germany</small>	 European Conformity	 QR Code	 Consults Instructions for Use	 Best Before

**NOTE:** Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

**\*For Lab Use Only**  
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