



## Standard Nutrient Broth (H.S. Vaccine Medium)

M116

A highly nutritive medium recommended for the large scale cultivation of bacteria for production of vaccine preparations.

### Composition\*\*

Ingredients	Gms / Litre
Meat infusion, solids	10.000
Peptic digest of lean meat infusion, solids	10.000
Sodium chloride	5.000
Final pH ( at 25°C)	7.6±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 25 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

### Principle And Interpretation

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

### Quality Control

#### Appearance

Cream to light yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Amber coloured clear solution without any precipitate.

#### Reaction

Reaction of 2.5% w/v aqueous solution at 25°C. pH : 7.6±0.2

#### pH

7.40-7.80

#### Cultural Response

M116: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours.

Organism	Inoculum (CFU)	Growth
<b>Cultural Response</b>		
<i>Enterobacter aerogenes</i> ATCC 13048	50-100	good-luxuriant
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant
<i>Staphylococcus epidermidis</i> ATCC 12228	50-100	good-luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	50-100	good-luxuriant

### Storage and Shelf Life

Store below 30°C in tightly closed container and prepared medium at 2-8°C. Use before expiry date on the label.

### Reference

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