

## CM 20784 - STANDARD NUTRIENT BROTH (H.S VACCINE MEDIUM) (VEG.)

### INTENDED USE

For large scale cultivation of bacteria for vaccine production.

### PRODUCT SUMMARY AND EXPLANATION

Standard Nutrient VegBroth is prepared by using Veg peptone and Veg extract which are of vegetable origin and free from BSE/TSE risks. Standard Nutrient Veg Broth is the modification of Standard Nutrient Broth which is formulated as per the recommendation of APHA as a general purpose medium for the cultivation of non-fastidious organisms from water and wastewater, dairy and food products. Standard Nutrient Veg Broth, like the conventional medium, is a highly nutritive medium which supports luxuriant growth of a wide variety of organisms. The medium is therefore recommended for large scale cultivation of bacteria for vaccine preparations.

### COMPOSITION

| Ingredients     | Gms / Ltr |
|-----------------|-----------|
| Veg peptone     | 10.0      |
| Veg extract     | 10.0      |
| Sodium chloride | 5.0       |

### PRINCIPLE

VegPeptone and Veg extract is the principal source of organic nitrogen, 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 : Yellow coloured, may have slightly greenish tinge, 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 |
|---------------|------|-------------------|--------|------------------------|-------------------|
|---------------|------|-------------------|--------|------------------------|-------------------|



|                                     |       |        |                |         |             |
|-------------------------------------|-------|--------|----------------|---------|-------------|
| Klebsiella aerogenes                | 13048 | 50-100 | Good-luxuriant | 35-37°C | 18-48 Hours |
| Escherichia coli                    | 25922 | 50-100 | Good-luxuriant | 35-37°C | 18-48 Hours |
| Salmonella Typhi                    | 6539  | 50-100 | Good-luxuriant | 35-37°C | 18-48 Hours |
| Staphylococcus aureus subsp. aureus | 25923 | 50-100 | Good-luxuriant | 35-37°C | 18-48 Hours |
| Staphylococcus epidermidis          | 12228 | 50-100 | Good-luxuriant | 35-37°C | 18-48 Hours |
| Streptococcus pyogenes              | 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.

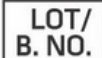
#### DISPOSAL

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

#### REFERENCES

1. Clesceri L.S. and Greenberg A.E., Trussell R.R., (Eds.), 1985, Standard Methods for the Examination of Water and Wastewater, 21st ed, APHA, Washington D.C.
2. Speck (Eds.), 1984, Compendium of Methods for The Microbiological Examination of Foods, 2nd ed., APHA, Washington, D.C.



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|---------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <br>GMP<br>Good Manufacturing<br>Practices Certified | <br>IVD<br>For In Vitro Diagnostic Use                                                                            | <br>QTY.<br>Quantity    | <br>LOT/<br>B. NO.<br>Lot / Batch Number | <br>REF<br>Catalogue Number          | <br>Manufacturer |
| <br>Temperature Unit                                 | <br>EC REP<br>Authorized Representative<br><small>MedNet GmbH<br/>Buckhorn 10,<br/>48163 Münster, Germany</small> | <br>European Conformity | <br>QR<br>Code                           | <br>Consults Instructions<br>for Use | <br>Best Before  |

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

\*For LabUse Only

