

## TMV 2261 – NUTRIENT BROTH WITH 1% PEPTONE (VEG.)

### INTENDED USE

A sterility testing medium for aerobes.

### PRODUCT SUMMARY AND EXPLANATION

Nutrient Broth with 1% peptone(veg) are prepared by completely replacing animal based peptones with vegetable peptones, which makes the media free of BSE/TSE risks. Peptic digest of animal tissue and Beef extract are replaced with plant based Veg peptone and Veg extract respectively which are nutritionally rich and supply essential nitrogenous compounds and growth factors.

### COMPOSITION

Ingredients	Gms / Ltr
Veg Peptone	10.000
Veg extract	10.000
Sodium chloride	5.000

### PRINCIPLE

The medium consists almost double concentration of nitrogen sources making it more nutritive. Veg extract and Veg peptone provides the necessary nitrogen compounds, carbon, vitamins and also some trace ingredients to the non-fastidious organisms like *Bacillus subtilis* and *Staphylococcus aureus*. Sodium chloride maintains osmotic equilibrium of the medium. With the addition of 10% v/v blood or other biological fluids like ascitic fluid, serum etc. these media are recommended for growing fastidious organisms.

### INSTRUCTION FOR USE

- Dissolve 25.0 grams in 1000 ml purified/distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder	: Light yellow to yellow coloured may have slightly greenish tinge, homogeneous, free flowing powder.
Appearance of prepared medium	: Light yellow coloured, clear solution in tubes.
pH (at 25°C)	: 7.4 ± 0.2

### INTERPRETATION

Cultural characteristics observed after incubation.

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Incubation Temperature	Incubation Period
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<i>Staphylococcus aureus</i>	25923	50-100	Luxuriant	35-37°C	18-48 Hours
<i>Streptococcus pyogenes</i>	19615	50-100	Good	35-37°C	18-48 Hours
<i>Streptococcus pneumoniae</i>	6303	50-100	Good	35-37°C	18-48 Hours
<i>Neisseria meningitidis</i>	13090	50-100	Good	35-37°C	18-48 Hours

#### PACKAGING:

In pack size of 100 gm and 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

- MacFaddin, J. (1985); Methods for Isolation- Cultivation- Identification Maintenance of Medical Bacteria, Vol. I, Williams and Wilkins, Baltimore.
- IP: Indian Pharmacopoeia, 1996. Govt. of India 1996. The controller of Publication, Delhi.

 GMP Good Manufacturing Practices Certified	 Best Before	 QTY. Quantity	 REF Catalogue Number	 Manufacturer
 Temperature Unit	 LOT/ B. NO. Lot / Batch Number	 Consults Instructions for Use	 QR Code	

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

**\*For Lab Use Only**  
**Revision: 08 Nov., 2019**