

## Technical Information

### Meat Peptone Type T

**Product Code: BA3050**

### Principle & Interpretation

HM Peptone Type T is manufactured under controlled conditions and processed to retain all nutritive value. It is obtained by proteolytic activity of trypsin. It is recommended for mass scale cultivation of microorganisms for production of antibiotics, vitamins, enzymes etc. It is equivalent to Meat Peptone Type T.

### Warning and Precautions

Read the label before opening the container. Wear protective gloves/protective clothing/eye protection/ face protection. Follow good microbiological lab practices while handling specimens and culture. Safety guidelines may be referred in individual safety data sheets.

#### Limitations

1. It is biological origin product since variation in colour of powder and clarity may observed.
2. Each lot of the product has been tested for the organisms specified on the COA. It is recommended to users to validate the medium for any specific microorganism other than mentioned in the COA based on the user 's requirement.
3. Individual organisms differ in their growth requirement and may show variable growth patterns on the medium prepared by the product.

#### Performance and Evaluation

Performance of the medium is expected when used as per the direction on the label within the expiry period when stored at recommended temperature

### Quality Control

#### Appearance :

Light yellow to brownish yellow homogeneous free flowing powder characteristic odour but not putrescent

#### Solubility :

Freely soluble in distilled/purified water, insoluble in alcohol.

#### Clarity :

1% w/v aqueous solution remains clear without haziness after autoclaving at 15 lbs pressure (121°C) for 15 minutes.

#### pH :

pH of 2% w/v aqueous solution at 25°C=6.5-7.5

#### Indole Test :

Tryptophan content: Passes

#### Microbial Load :

Bacterial Count : <= 2000 CFU/gram by plate method, when incubated at 30-35°C for not less than 3 days

Yeast & mould Count : <= 100 CFU/gram by plate method, when incubated at 20-25°C for not less than 5 days.

#### Test for pathogens :

1. *Escherichia coli*- Absent/gram of sample
2. *Salmonella* species- Absent/10 gram of sample
3. *Pseudomonas aeruginosa*- Absent/gram of sample
4. *Staphylococcus aureus*- Absent/gram of sample
5. *Candida albicans*- Absent/gram of sample



Dehydrated Culture Media  
Bases / Media Supplements

6. *Clostridia*- Absent/gram of sample

**Cultural response** : Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Nutrient Agar (DM1001) using HM Peptone Type T as an ingredient.

#### Cultural response

#### Organism

*Escherichia coli* ATCC 25922 (WDCM00013)

*Pseudomonas aeruginosa* ATCC 27853(WDCM 00025)

*Staphylococcus aureus* subsp. *aureus* ATCC25923 (WDCM 00034)

*Salmonella enterica* subsp. *enterica* TyphiATCC 6539

*Streptococcus pyogenes* ATCC 19615

*Salmonella enterica* subsp. *Enterica* Enteritidis ATCC 13076 (WDCM 00030)

*Salmonella enterica* subsp. *Enterica* Typhimurium ATCC 14028(WDCM 00031)

*Yersinia enterocolitica* subsp. *enterocolitica*ATCC 9610 (WDCM 00038)

*Yersinia enterocolitica* subsp. *enterocolitica*ATCC 23715 (WDCM 00160)

#### Growth

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

Luxuriant

#### Chemical Analysis

Total Nitrogen :  $\geq 12.00$  %

Amino Nitrogen :  $\geq 3.50$  %

Sodium chloride :  $\leq 6.00$  %

Loss on drying :  $\leq 5.00$  %

Residue on ignition :  $\leq 15.00$  %

## Storage and Shelf Life

Store between 10-30°C in tightly closed container and away from bright light. Use before expiry date on label. On opening, product should be properly stored in dry ventilated area protected from extremes of temperature and sources of ignition. Seal the container tightly after use.

## Disposal

User must ensure safe disposal by autoclaving and/or incineration of used or unusable preparations of this product. Follow established laboratory procedures in disposing of infectious materials and material that comes into contact with clinical sample must be decontaminated and disposed of in accordance with current laboratory techniques.

## Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
- The product conforms solely to the technical information provided in this booklet and to the best of knowledge research and development work carried at **CDH** is true and accurate.
- **Central Drug House Pvt. Ltd.** reserves the right to make changes to specifications and information related to the products at any time.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.