

# Technical Information

## Peptone Special

**Product Code: BA2015**

### Principle & Interpretation

Peptone special is specifically designed to maximize the growth of fastidious microorganisms. It is used to prepare culture media for cultivation of *Neisseria*, *Yersinia*, *Staphylococci* & *Enterococci*.

### 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

Yellow to brownish yellow homogeneous free flowing powder characteristic but not putrescent

### Solubility

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

### Clarity

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

### pH

pH of 2% w/v aqueous solution at 25°C 6.1- 7.1

### 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





Dehydrated Culture Media  
Bases / Media Supplements

5. *Candidaalbicans*- Absent/gram of sample

6. *Clostridia*- Absent/gram of sample

**Indole Test** : Tryptophan content: Passes

**Cultural Response** : Cultural response observed with added 5% w/v sterile defibrinated blood after an incubation at 35-37°C for 24-48 hours by preparing Columbia Agar Base (DM1144) using Peptone Special as an ingredient.

#### Cultural response

Organism	Growth	Haemolysis
<i>Neisseria meningitidis</i> ATCC 13090	Luxuriant	none
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC25923 (WDCM 00034)	Luxuriant	beta / gamma
<i>Staphylococcus epidermidis</i> ATCC 12228 (WDCM 00036)	Luxuriant	gamma
<i>Streptococcus pneumoniae</i> ATCC 6303	Luxuriant	alpha
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant	beta
<i>Clostridium sporogenes</i> ATCC 11437	Luxuriant	Not applicable
<i>Clostridium perfringens</i> ATCC 12924	Luxuriant	Not applicable

#### Chemical Analysis

Total Nitrogen :  $\geq 12.00$  %

Amino Nitrogen :  $\geq 3.50$  %

Sodium chloride :  $\leq 5.00$  %

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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