



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Protose

Product Code: BA2280

Principle & Interpretation

Protose is specially developed product which is high in proteoses. Various combinations of proteoses, peptones and amino acids used in studies of bacterial metabolism could be prepared from protose. It is recommended for fermentation and vaccine industries. This exceptionally light coloured peptone yields clear solution possessing good heat stability.

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 homogenous free flowing powder, having characteristic odour but not putrescent.

Solubility

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

Clarity

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

Reaction

Reaction of 2% w/v aqueous solution at 25°C.

pH

6.50 - 7.50

Microbial Load:

Total aerobic microbial count (cfu/gm)

By plate method when incubated at 30-35°C for not less than 3 days. Bacterial

Count : ≤ 2000 CFU/gram

Total Yeast and mould count (cfu/gm)

By plate method when incubated at 20-25°C for not less than 5 days. Yeast & mould

Count : ≤ 100 CFU/gram

Test for Pathogens

1. *Escherichia coli*- Negative in 10 gms of sample
2. *Salmonella* species- Negative in 10 gms of sample
3. *Pseudomonas aeruginosa*- Negative in 10 gms of sample



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4. *Staphylococcus aureus*- Negative in 10 gms of sample
5. *Candida albicans*-Negative in 10 gms of sample
6. *Clostridia*- Negative in 10 gms of sample.

Indole Test

Tryptophan content: Passes

Cultural response

Cultural response observed after an incubation at 35-37°C for 18-24 hours by preparing Nutrient Agar (DM1001) using Protoneas an ingredient.

Cultural response

Organism	Growth
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant
<i>Pseudomonas aeruginosa</i> ATCC (WDCM 00025)	Luxuriant
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> ATCC 25923(WDCM 00034)	Luxuriant
<i>Salmonella enterica</i> serovar Typhi ATCC 6539	Luxuriant
<i>Streptococcus pyogenes</i> ATCC 19615	Luxuriant
<i>Salmonella enterica</i> serovar Enteritidis ATCC 13076 (WDCM 00030)	Luxuriant
<i>Salmonella enterica</i> serovar Typhimurium ATCC 14028 (WDCM00031)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 9610 (WDCM 00038)	Luxuriant
<i>Yersinia enterocolitica</i> ATCC 23715 (WDCM 00160)	Luxuriant

Chemical Analysis

Total Nitrogen	>= 13.50%
Amino Nitrogen	>= 3.0%
Sodium chloride	<= 6.00%
Loss on drying	<= 5.0%
Residue on ignition	<= 15.0%

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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- Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.
- Do not use the products if it fails to meet specifications for identity and performance parameters.