



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Peptonized Milk (SH Powder)

Product Code: BA2275

Principle & Interpretation

Peptonized SM Powder is an enzymic digestion of high grade SM powder. It has high tryptophan content and is therefore used in media for testing the indole reaction. It serves as a source of nitrogen and also has high level of carbohydrate. Suitable for cultivation of Lactobacilli, yeasts and moulds. It is used on its own or in conjunction with other ingredients, in media for bacteriological examination of dairy products.

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 and ether.

Clarity

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

pH

pH of 2% w/v aqueous solution at 25°C 6.10 - 7.10

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



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3. *Pseudomonas aeruginosa* - Absent/gram of sample

4. *Staphylococcus aureus* - Absent/gram of sample

5. *Candida albicans* - Absent/gram of sample

6. *Clostridia* - Absent/gram of sample

Indole Test : Tryptophan content: Passes

Cultural response : Cultural response is observed after an incubation at 35-37°C for 18-48 hours by preparing Universal Beer Agar (DM1415) using Peptonized SM Powder as an ingredient.

Cultural response

Organism	Growth
<i>Acinetobacter calcoaceticus</i> ATCC 23055	Good-luxuriant
<i>Lactobacillus acidophilus</i> ATCC 4356(WDCM 00098)	Good-luxuriant
<i>Lactobacillus fermentum</i> ATCC 9338	Good-luxuriant
<i>Proteus hauseri</i> ATCC 13315	Fair-good

Chemical Analysis

Total Nitrogen : ≥ 5.00 %

Amino Nitrogen : ≥ 1.50 %

Sodium chloride : ≤ 5.00 %

Loss on drying : ≤ 5.00 %

Residue on ignition : ≤ 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.
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- Do not use the products if it fails to meet specifications for identity and performance parameters.