



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Tryptone Type I

Product Code: BA2014

Principle & Interpretation

Tryptone Type-1(Casitose Type-I) is an enzymatic digest of milk protein, very rich in amino nitrogen that meets Pharmacopeial specification. It is used in the production of Sterility Testing Media such as Tryptone Soya Agar and broth, Fluid Thioglycollate Medium etc, and various Diagnostic Media. It is also used in media for fermentation processes to produce antibiotics and toxins.

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

Off white to light yellow homogenous free flowing powder characteristic odour but not putrescent

Solubility

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

Clarity

2% w/v aqueous solution remains clear and neutral 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 6.2- 7.2

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



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6. *Clostridia*- Absent/gram of sample

Indole Test

Tryptophan content: Passes

Cultural response :

Cultural response observed after an incubation for bacterial at 35-37°C for 18-24 hours and for fungal at 20-25°C for not less than 5 days by preparing Soyabean Casein Digest Medium (DM1011) using Tryptone Type-I (Casitose Type-I) as an ingredient.

Cultural response

Organism

Staphylococcus aureus subsp. *aureus* ATCC25923 (WDCM 00034)
Staphylococcus aureus subsp. *aureus* ATCC6538 (WDCM 00032)
Escherichia coli ATCC 25922 (WDCM 00013)
Escherichia coli ATCC 8739 (WDCM 00012)
Pseudomonas aeruginosa ATCC 27853(WDCM 00025)
Pseudomonas aeruginosa ATCC 9027(WDCM 00026)
Bacillus subtilis subsp. *Spizizenii* ATCC 6633(WDCM 00003)
Salmonella enterica subsp. *Enterica* Typhimurium ATCC 14028 (WDCM 00031)
Salmonella enterica subsp. *enterica* serotype Abony NCTC 6017(WDCM 00029)
Kocuria rhizophila ATCC 9341
Streptococcus pneumoniae ATCC 6303
Candida albicans ATCC 10231(WDCM 00054)
Aspergillus brasiliensis ATCC 16404(WDCM 00053)

Growth

luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant
luxuriant

Chemical Analysis

Total nitrogen : ≥ 12.00 %
Amino nitrogen : ≥ 3.50 %
Sodium chloride : ≤ 5.00 %
Loss on drying : ≤ 7.00 %
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.
- **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.