

Technical Information

Casein Enzyme Hydrolysate, Type-II

Product Code: BA2028

Principle & Interpretation

Tryptone, Type-II (Caseinose, Type II) is carefully manufactured under controlled conditions of enzyme hydrolysis using high quality lactose free milk protein and is equivalent to Caseinone and is specially used in Antibiotic Assay Media. And is ideal in culture media wherein microbial growth is determined by optical means. Also it is a very rich source of Amino Nitrogen.

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

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 6.2 - 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



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 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-II (Casitose, Type-II) as an ingredient.

Cultural response

Growth

Organism

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

Chemical Analysis

Total Nitrogen : ≥ 12.00 %

Amino Nitrogen : ≥ 3.20 %

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.
- **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.