



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

Malt Extract, Certified

Product Code: BC2004

Principle & Interpretation

Malt Extract, Certified is manufactured by drying extract of sprouted malt grains at lower temperatures to retain its nutritive properties. It is very sensitive to high temperatures and overheating darkens the medium. It is certified grade of malt extract very rich in mixture of carbohydrates (mainly maltose) and growth factors, so it is suitable for use in media for cultivation of fungi-yeast and moulds.

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

Cream to brownish yellow homogenous free flowing powder

Solubility

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

Clarity

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

pH

pH of 2% w/v aqueous solution at 25°C 4.8 - 5.8

Microbial Load

Bacterial Count : \leq 2000 CFU/gram by plate method, when incubated at 30-35°C for not less than 3 days
Yeast & mould Count : \leq 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



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

5. *Candidaalbicans*- Absent/gram of sample

6. *Clostridia*- Absent/gram of sample

Cultural response : Cultural response observed after an incubation at 25-30°C for 48-72 hours by preparing MaltExtract Agar (DM1137) using Malt Extract as an ingredient.

Cultural response

Organism

Candida albicans ATCC 10231 (WDCM 0054)

Saccharomyces cerevisiae ATCC 9763(WDCM 00058)

Aspergillus brasiliensis ATCC 16404(WDCM 00053)

Growth

Luxuriant

Luxuriant

Luxuriant

Chemical Analysis

Sodium chloride (NaCl) : ≤1.00 %

Loss on drying : ≤6.00 %

Residue on ignition : ≤4.50 %

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.