



Dehydrated Culture Media
Bases / Media Supplements

Technical Information

D(+) Maltose, monohydrate

Product Code: BA2018

Principle & Interpretation

Maltose is a Sugar. It contains one molecule of water of hydration or is anhydrous. It is used for Bacteriological purpose.

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. 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.
2. 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

White crystalline powder with a slightly sweet taste.

Solubility

Freely soluble in boiling distilled water. Slightly soluble in alcohol. Insoluble in chloroform and ether.

Clarity

5% w/v solution in boiling distilled water is clear and colourless.

Cultural response :

Cultural response observed after an incubation at 35-37 °C for 18-24 hours by preparing Phenol Red Maltose Broth (DM1276), using D (+) Maltose, monohydrate as an ingredient.

Cultural response Organism	Growth	Gas	Acid
<i>Proteus hauseri</i> ATCC 13315	Luxuriant	Positive reaction	Positive reaction, yellow colour.
<i>Serratia marcescens</i> ATCC 8100	Luxuriant	Negative reaction.	Positive reaction, yellow colour.
<i>Salmonella enterica</i> subsp. <i>enterica</i> Typhi ATCC 6539	Luxuriant	Negative reaction.	Positive reaction, yellow colour.
<i>Salmonella enterica</i> subsp. <i>Enterica</i> Typhimurium ATCC 14028 (WDCM 00031)	Luxuriant	Positive reaction	Positive reaction, yellow colour.
<i>Shigella flexneri</i> ATCC 12022 (WDCM00126)	Luxuriant	Negative reaction.	Positive reaction, yellow colour.



Dehydrated Culture Media
Bases / Media Supplements

<i>Citrobacter freundii</i> ATCC 8090	Luxuriant	Positive reaction	Positive reaction, yellowcolour.
* <i>Klebsiella aerogenes</i> ATCC 13048 (WDCM 00175)	Luxuriant	Positive reaction	Positive reaction, yellowcolour.
<i>Escherichia coli</i> ATCC 25922 (WDCM00013)	Luxuriant	Positive reaction	Positive reaction, yellowcolour.
<i>Klebsiella pneumoniae</i> ATCC 13883 (WDCM 00097)	Luxuriant	Positive reaction	Positive reaction, yellowcolour.

Chemical Analysis

Heavy metals (as Pb) : $\leq 0.001\%$

Arsenic : $\leq 0.001\%$

IsoMaltose : $\leq 0.5\%$

Sulphated ash : $\leq 0.1\%$

Glucose : $\leq 0.5\%$

Assay (HPLC) : $\geq 92.00\%$

Specific rotation $[\alpha]_{20}^{D}$: $+137^{\circ}$ to $+139^{\circ}$

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.
- Products are not intended for human or animal diagnostic or therapeutic use but for laboratory, research or further manufacturing of diagnostic reagents extra.
- 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.