



D(+) Maltose, monohydrate

RM018

Intended use

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.
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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 (M276), using D (+) Maltose, monohydrate as an ingredient.

Cultural Response

| Organism | Growth | Gas | Acid |
|---|-----------|--------------------|-----------------------------------|
| <i>Citrobacter freundii</i> ATCC 8090 | Luxuriant | Positive reaction. | Positive reaction, yellow colour. |
| * <i>Klebsiella aerogenes</i> ATCC 13048 (WDCM 00175) | Luxuriant | Positive reaction. | Positive reaction, yellow colour. |
| <i>Escherichia coli</i> ATCC 25922 (WDCM 00013) | Luxuriant | Positive reaction. | Positive reaction, yellow colour. |
| <i>Klebsiella pneumoniae</i> ATCC 13883 (WDCM 00097) | Luxuriant | Positive reaction. | Positive reaction, yellow colour. |

| 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 (WDCM 00126) | Luxuriant | Negative reaction. | Positive reaction, yellow colour. |

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 $[\alpha]_{20^\circ/D^\circ}$: $+137^\circ$ 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.



Storage temperature



Do not use if package is damaged



HiMedia Laboratories Pvt Limited
C-40,21/Y, MIDC, Wagle Ind Area
Thane(W)-400604, Maharashtra, India

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Disclaimer :

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related HiMedia™ publications. The information contained in this publication is based on our research and development work and is to the best of our knowledge true and accurate. HiMedia™ Laboratories 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 or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. 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.