

Lactose (NCM0233)

Intended Use

Lactose is used in preparing microbiological culture media in a laboratory setting. Lactose is not intended for use in the diagnosis of disease or other conditions in humans.

Description

A basic characteristic of a microorganism is its nutritional requirements, and without the proper nutrients the organism cannot survive. An essential variety of ingredients are used in the preparation of dehydrated culture media to ensure optimal growth of the microorganism. Carbohydrates, including lactose, play an important role as an energy source to increase the growth of bacteria and fungi.

Precaution

Refer to SDS

Quality Control Specifications

A representative sample of Lactose was tested and met or exceeded established performance specifications as listed below.

Physical and Chemical Characteristics	Expected Results
Loss on Drying (%)	≤ 1%
Specific Rotation	+ 54.4 to 55.9
Residue on Ignition (%)	≤ 0.1%
Heavy Metals, ppm	≤ 5 ppm
Acidity, mL	≤ 0.4 mL
Color (at 400 nm)	≤ 0.04 A
≤ 100 cfu/g	≤ 100 cfu/g

Test Procedure

Refer to appropriate references for specific procedures using Lactose, or the dehydrated culture media containing Lactose.

Results

Refer to appropriate references for test results.

Expiration

Refer to expiration date stamped on container. Product should be discarded if not free flowing, or if appearance has changed from the original color. Expiry applies to product in its intact container when stored as directed.

Storage

Store powder at 2-30°C away from direct sunlight. Once opened and recapped, place container in a low humidity environment at the same storage temperature. Protect from moisture and light by keeping container tightly closed.