

Dextrose, Anhydrous (NCM0216)

Intended Use

Dextrose is used in preparing microbiological culture media in a laboratory setting. Dextrose 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 Dextrose, 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 Dextrose was tested and met or exceeded established performance specifications as listed below.

Physical and Chemical Characteristics

Specification	Expected Results
Water	< 1.0%
Identification A	Passes test
Identification B	Passes test
Assay	97.5 – 102.0% d.b.
Maltose and Isomaltose	< 0.40%
Maltotriose	< 0.20%
Fructose	< 0.15%
Unspecified related substances	< 0.10%
Total Impurities	< 0.50
Color and clarity of solution	Passes test
Conductivity	< 20.0 μ S/cm
Soluble Starch, Sulfite	Passes test
Dextrin	Passes test

Test Procedure

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

Results

Refer to appropriate references for test results.

Storage

Store product 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.

Expiration

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

References

1. Murray, P. R., E. J. Baron, M. A. Pfaller, F. C. Tenover, and R. H. Tenover (eds.). 1995. Manual of clinical microbiology, 6th ed. American Society for Microbiology, Washington, D.C.
2. Isenberg, H. D. (ed.). 1992. Clinical microbiology procedures handbook. Vol. 1. American Society for Microbiology, Washington, D.C.