



Dextrose Salt Broth

M980

Dextrose Salt Broth is used for enumeration of yeasts and moulds in butter and other dairy products.

Composition**

Ingredients	Gms / Litre
Ammonium nitrate	1.000
Ammonium sulphate	1.000
Disodium phosphate	4.000
Monopotassium phosphate	2.000
Sodium chloride	1.000
Dextrose	10.000
Yeast extract	1.000
Final pH (at 25°C)	6.6±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 20 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Distribute in tubes containing inverted Durham s tubes. Sterilize by autoclaving at 115°C for 15 minutes. Cool to 45°C. If desired pH can be adjusted by adding sterile 10% aqueous citric acid. Do not reheat the medium after addition of acid. Mix well and dispense as desired

Principle And Interpretation

Dextrose Salt Broth is prepared according to the standard formula 31 of the International Dairy Federation (1). It is used for enumeration of yeasts and moulds in butter and other dairy products (2, 3).

Yeast extract and dextrose provide growth nutrients. Sodium chloride maintains the osmotic balance while phosphates buffer the medium. Ammonium nitrate and ammonium sulphate are sources of ions.

Quality Control

Appearance

Off-white to light yellow homogeneous free flowing powder

Colour and Clarity of prepared medium

Light amber coloured, clear solution in tubes

Reaction

Reaction of 2.0% w/v aqueous solution at 25°C. pH : 6.6±0.2

pH

6.40-6.80

Cultural Response

M980: Cultural characteristics observed after an incubation at 30°C for 48-72 hours.

Organism	Inoculum(CFU)	Growth
* <i>Aspergillus brasiliensis</i> ATCC 16404	50-100	good-luxuriant
<i>Candida albicans</i> ATCC 10231	50-100	good-luxuriant
<i>Saccharomyces cerevisiae</i> ATCC 9763	50-100	good-luxuriant

*Key: Formerly known as *Aspergillus niger*

Storage and Shelf Life

Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Reference

1. International Dairy Federation, 1964, International Standard FIL-1 DF31 Brussels.
2. Ritter and Eschmann, 1966, Alimenta., 5:43.
3. Ritter and Eschmann, 1966, Alimenta., 5:46.

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