

## Technical Information

### Dextrose Salt Broth

**Product Code: DM 1980**

**Application:** - 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

#### Principle & Interpretation

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

#### Methodology

Suspend 20 grams of powder media in 1000 ml distilled water. Shake well and heat to dissolve the medium completely. Distribute in tubes containing inverted Durham s tubes. Sterilize by autoclaving at 115°C for 15 minutes.

#### Quality Control

##### Physical 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 Range** 6.40-6.80

##### Cultural Response/Characteristics

DM1980: Cultural characteristics observed after an incubation at 30°C for 48-72 hours.

##### Organism

\**Aspergillus brasiliensis* ATCC 16404

##### Inoculum (CFU)

50-100

##### Growth

Good-luxuriant

*Candida albi cans* ATCC 10231

50-100

Good-luxuriant

*Saccharomyces cerevisiae* ATCC 9763

50-100

Good-luxuriant

\*Key: Formewrly known as *Aspergillus niger* ATCC 16404



Dehydrated Culture Media  
Bases / Media Supplements

## Storage and Shelf Life

**Dried Media:** Store below 30°C in tightly closed container and use before expiry date as mentioned on the label.

**Prepared Media:** 2-8<sup>0</sup> in sealable plastic bags for 2-5 days.

## Further Reading

1. International Dairy Federation, 1964, International Standard FIL- 1 DF3 1 Brussels.
2. Ritter and Eschmann, 1966, Alimenta., 5:43.
3. Ritter and Eschmann, 1966, Alimenta., 5:46.

## Disclaimer :

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