



Technical Data

Sucrose Agar for Brewery Isolates

M828

Sucrose Agar is recommended isolation of dextran producing by *Leuconostoc* species.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	10.000
Yeast Extract	5.000
Dipotassium phosphate	5.000
Triammonium phosphate	5.000
Sucrose	50.000
Agar	15.000

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 9 grams in 100 ml distilled water. Heat to boiling to dissolve the medium completely. Dispense as desired and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 25°C and store in a cool, dry place preferably below 25°C.

Principle And Interpretation

Sucrose Agar is modification of the medium developed by Boatwright and Kirsop for brewery isolates (1). *Leuconostoc* are fastidious chemoorganotrophic bacteria. Casein enzymic hydrolysate and yeast extract provides as nitrogen source and other essential nutrients. The phosphates act as buffering system. *Leuconostoc* spp synthesizes dextran from sucrose.

Quality Control

Appearance

Cream to yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light amber coloured clear to slightly opalescent gel forms in petri plates.

Cultural Response

M828: Cultural characteristics observed after an incubation at 35-37°C for 18-48 hours .

Organism	Growth
<i>Leuconostoc dextranicum</i>	good-luxuriant
<i>Leuconostoc mesenteroides</i>	good-luxuriant

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. Boatwright J. and Kirsop B.H., 1976. Sucrose agar-growth medium for spoilage organisms. J. I Brewing, Vol 82, 343-346.

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