

Product Information

DEXTROSE TRYPTONE AGAR

Product Number **D 7934**

Product Description

Dextrose Tryptone Agar is recommended for the detection and enumeration of mesophilic and thermophilic aerobic microorganisms in foods. Williams evolved Dextrose Tryptone Agar for the cultivation of thermophilic bacterial. Dextrose Tryptone Agar is used for the examination of canned food, sugar and starch for *Bacillus stearothermophilus*. Casein enzymic hydrolysate provides the nutrients to the microorganisms. Dextrose serves as an energy source, while bromo cresol purple is a pH indicator. Acid producing microorganisms produce a yellow colony.

Components

Item	g/L
Casein Enzymic Hydrolysate	10.00
Dextrose	5.00
Bromo cresol purple	0.04
Agar	15.00

Final pH (at 25°C) 6.7 ± 0.2

Precautions and Disclaimer For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 30 grams of Dextrose Tryptone Agar in 1000 mls of distilled water. Boil to dissolve the medium completely.

Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Storage

Store the dehydrated medium at 24°C and the prepared medium at 2-8°C.

Product Profile

Appearance	Yellow colored, homogeneous, free flowing powder.
Gelling	Firm.
Color and Clarity	Purple colored, slightly opalescent gel forms in petri plates or tubes.
Cultural Response	Cultural characteristics observed after 48 hours at 55°C.

Organisms (ATCC)	Growth
<i>Bacillus coagulans</i> (8038)	Good-luxuriant
<i>Bacillus stearothermophilus</i> (7953)	Good-luxuriant
<i>Bacillus brevis</i> (8246)*	Good-luxuriant

*with or without dextrose fermentation

References:

- Williams, O.B., (1936). Food Res.1,217.
- Cameron, E.J., (1936). J. Assoc. Official Agr. Chem. 19, 433
- American Type Culture Collection, Manassas Va., U.S.A

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