

ASHBY'S MANNITOL AGARProduct Number **A1840****Product Description**

Ashby's Mannitol Agar is used for the cultivation of the *Azotobacter* species that can use mannitol and atmospheric nitrogen as a source of carbon and nitrogen, respectively. Besides having the ability to fix atmospheric nitrogen, *Azotobacter* can also synthesize biologically active substances which improve seed germination and plant growth.

Components

Item	g/L
Mannitol	20.00
Dipotassium Phosphate	0.20
Magnesium Sulphate	0.20
Sodium Chloride	0.20
Potassium Sulphate	0.10
Calcium Carbonate	5.00
Agar	15.00

Final pH (at 25°C) 7.4 ± 0.2

Precautions and Disclaimer

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

Preparation Instructions

Suspend 40.7 grams of Ashby's Mannitol Agar in 1000 mls of distilled water. Boil to dissolve the medium

Product Information

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	Off white colored, homogenous, free flowing powder.
Gelling	Firm.
Color and Clarity	Whitish opalescent gel forms in petriplates.
Cultural Response	Cultural characteristics are observed upto 5 days at 37°C.
Organisms	<i>Azotobacter nigricans</i> <i>Azotobacter vinelandii</i>
Growth	luxuriant

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