

Product Name : Bacillus Differentiation Agar	Product Code : NLAB-CHEMICALSIND21019
Description :	
Bacillus Differentiation Agar	
Technical Specification :	
Bacillus Differentiation Agar	
Bacillus Differentiation Agar for differentiation between Bacillus cereus and Bacillus subtilis based on mannitol fermentation.	
Directions	
Suspend 22.0 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.	
Principle And Interpretation	
Bacillus Differentiation Agar is recommended for differentiation between Bacillus cereus and Bacillus subtilis based on mannitol fermentation. Bacillus is Gram positive, rod-shaped bacteria; can be obligate aerobes or facultative anaerobes. Under stressful environmental conditions they produce oval endospores, that can be dormant for extended periods. Yeast autolysate provide necessary nitrogenous source for growth of Bacillus. Bacillus cereus causes food-borne illness and Bacillus subtilis is involved in food spoilage like ropiness in bread and other related foods. Ammonium phosphate maintains buffering action. Bromocresol purple act as a pH indicator to detect mannitol fermentation. Magnesium sulphate and Potassium chloride supports sporulation.	
Quality Control	
Appearance: Light yellow to light green homogeneous free flowing powder	
Reaction: Reaction of 2.2% w/v aqueous solution at 25°C. pH : 7.2±0.2	

pH: 7.00-7.40

Gelling: Firm, comparable with 1.54 % Agar gel.

Colour and Clarity of prepared medium: Light purple coloured clear to slightly opalescent gel forms in Petri plates.

Naugralabequipments

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