

TECHNICAL SHEET

B847	AZOSPIRILLUM MEDIUM W/ 0.17% AGAR (TWIN PACK)					
Formula						
Ingredient:		gms/lit.				
Part A -						
Malic acid		5.00				
Dipotassium hydrogen phosphate		0.50				
Ferrous sulphate		0.50				
Manganese sulphate		0.01				
Magnesium sulphate		0.20				
Sodium chloride		0.10				
Bromo thymol blue		0.002				
Sodium molybdate		0.002				
Calcium chloride		0.02				
Agar		1.75				
Part B -						
Potassium hydroxide		4.00				
Final pH (at 25°C): 6.8± 0.2						
Directions:						
Suspend 8.08 grams of dehydrated Part A in 950 ml purified / distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add required quantity of Potassium hydroxide (Part B) dissolved in 50 ml of sterile distilled water to obtain pH of 6.8±0.2 *As per standard it is recommended to use 4.000 grams of Potassium hydroxide (Part B)						
Principle:						
Azospirillum species occur as free-living in soil or in association with the roots of cereal crops, grasses and tuber plants. Azospirillum Medium with 0.17% Agar is used for cultivation of Azospirillum species. Malic acid is used as the carbon source. Azospirillum species grow well in presence of Malic acid and are not overgrown by other nitrogen fixers. Dipotassium phosphate provides buffering effect and other inorganic salt ingredients provide necessary growth nutrients. Agar at 0.17% concentrations provides microaerophilic conditions necessary for nitrogen fixation by Azospirillum species.						
Type of specimen : Soil samples.						
Specimen Collection and Handling:						
For soil samples, follow appropriate techniques for sample collection and processing as per standard and current guidelines of soil microbiology. After use, contaminated materials must be sterilized by autoclaving before discarding.						
QC Tests – (I) Dehydrated Medium						
	Colour:	Part A : Cream to yellow Part B : White to cream				
	Appearance:	Part A : Homogeneous Free Flowing powder Part B : Pellets				
(II) Rehydrated medium						
	pH (post autoclaving/heating):	6.8 ± 0.2				
	Colour (post autoclaving/heating):	Light yellow to pale green coloured clear to slightly opalescent solution.				
	Clarity (post autoclaving/heating):	Clear to slightly opalescent solution.				
(III) Q.C. Test Microbiological						
	Cultural characteristics observed up to 8 days at 30°C.					
	MICROORGANISM (ATCC)	GROWTH				
	Azospirillum brasiliensis 29710	good-luxuriant				
Warning & Precautions :		1. For In vitro diagnostic Use. By professionals only. 2. Read the label carefully before opening the container. Wear PPE wares. Follow established good microbiology laboratory practices while handling specimens and cultures and take standard precautions for handling specimens. 3. For safety guidelines refer individual safety data sheet.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. Further biochemical tests must be carried out for confirmation.				
Use:		It is used for the cultivation of Azospirillum species.				
Storage:		Dehydrated medium- below 30°C Prepared medium- Between 15 to 25°C.				
Disposal:		Ensure safe disposal by autoclaving/or incineration of used or usable preparation of this product. Follow established laboratory procedures while disposing all infectious material and those coming in contact must be decontaminated and disposed off with existing laboratory technics.				
Packing:		500 gm bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B847	12.08g/l (Part A+B)	41.32L (Part A+B)	6.8± 0.2	Nil	121°C / 15 minutes	

Refer disclaimer Overleaf

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications.

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