

B409	B.C. MOTILITY TEST MEDIUM					
Formula						
Ingredients :		gms/lit.				
Casein enzymic hydrolysate		10.00				
Yeast extract		2.50				
Dextrose		5.00				
Disodium phosphate		2.50				
Agar		3.00				
Final pH (at 25°C) : 7.4 ± 0.2						
Directions :						
Suspend 23 gms. in 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in 2-3 ml. amounts in screw capped tubes. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Allow the tubes to cool in an upright position.						
Principle :						
B.C. Motility Test Medium is formulated as per APHA for examination of motility of Bacillus cereus. The medium contains casein enzymic hydrolysate, yeast extract and dextrose that provide nutrients while phosphate helps in maintaining the pH. Agar content of the medium is crucial for determining motility, 0.3% agar renders medium semisolid in which motile bacteria produce diffused turbidity due to growth, while nonmotile bacteria exhibit a line of growth along the line of inoculation.						
QC Tests – (I) Dehydrated Medium						
Colour :		Cream to light yellow				
Appearance :		Homogeneous Free Flowing powder				
(II) Rehydrated medium						
pH (post autoclaving/heating) :		7.4 ± 0.2				
Colour (post autoclaving/heating) :		Light yellow to yellow				
Clarity (post autoclaving/heating) :		Clear to very slightly opalescent				
(III) Q.C. Test Microbiological						
Cultural characteristics observed after 18-24 hrs. at 30°C.						
MICROORGANISM (ATCC)		GROWTH	MOTILITY			
Bacillus cereus var mycoides		Luxuriant	-			
Bacillus cereus (10876)		Luxuriant	+			
Bacillus thuringiensis (10792)		Luxuriant	+			
Bacillus anthracis (14578)		Luxuriant	-			
Key : + = positive reaction, growth away from stab inoculation. - = Negative reaction, growth along the stab inoculation.						
Precautions :		1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
Limitations :		1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium.				
Use :		For cultivation and examination of motility of Bacillus cereus strains.				
Storage :		Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.				
Packing :		500 gm. bottle				
Product profile:		Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B409		23g/l	21.739L	7.4 ± 0.2	NIL	121°C / 15 minutes

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 BIOMARK LABORATORIES publications.

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