BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B911	ACETAMIDE BROTH (TWIN	ACETAMIDE BROTH (TWIN PACK)					
Formula							
Ingredients:		gms/lit.					
Part A: Acetamide		10.00					
Part B: Sodium chloride		5.00					
Dipotassium hydrogen phosphate		1.39					
Pota	ssium dihydrogen phosphate	0.73					
Mag	nesium sulphate	0.50					
Pher	nol red	0.012					
Final pH (at 25°C):		7.0 <u>+</u> 0.2					
Divoctions							

Directions:

Suspend 7.63 grams of part B in 1000 ml distilled water. Add 10.0 grams of Part A. Heat if necessary, to dissolve the medium completely. Dispense in 10ml amounts in tubes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle:

The media contains inorganic salts and acetamide a sole carbon and nitrogen source. However very few organisms growing in the medium metabolize acetamide by the process of deamination (acrylamidase activity). This unique ability is useful in identification of various non-fermenting gram-negative organisms. This ability is shown by Pseudomonas aeruginosa, Pseudomonas aciovorans Group III (Achromobacter xylosoxidans) and Alcaligenes odorans. Acetamide deamination leads to the liberation of ammonia, which thereby increases the pH of the medium, leading to a subsequent colour change of the phenol red indicator from yellow orange to purplish red. Some strains require upto seven days to exhibit a positive reaction as they deaminate acrylamide slowly.

Phosphates in the media serve as buffering agents, Magnesium sulphate is a source of ions that stimulate metabolism whereas Acetamide serves as the sole nitrogen and carbon source. Sodium chloride maintains osmotic equilibrium. Phenol red is the pH indicator.

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QC Tests - ((I)Deh	ydrated Medium							
Colour:		Part A: Colourless							
			Part B : Light yellow to light pink						
Appearance:		Part A: Deliquescent crystals							
			Part B: Homogeneous Free Flowing powder						
(II)Rehydrated medium									
pH (post autoclaving/heating):			7.0 <u>+</u> 0.2						
Colour	Colour (post autoclaving/heating):			Orange					
			Clear solution in tubes						
(III)Q.C. Test Microbiological									
Cultural characteristics observed after an incubation at 35-37°C for 4-7 days.									
MICROO						DEAMINATION			
Pseudomonas aeruginosa (27853)		Good -luxuriant		positive reaction, purplish red					
						colour (within 7days)			
Stenotrophomonas maltophilia (1363		(13637)	Good -luxuriant		negative reaction, no purplish				
						red colour (aft	er 7 days)		
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							
			w or grow poorly on this medium.						
Use:		For detection of Pseudomonas aeruginosa in water samples.							
Storage :	Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.								
Packing:		500 gm. bottle							
Product profile:		Reconstitution	Quantity o	n	pH (25°C)	Supplement	Sterilization		
			Preparatio	n (500g)					
B911		7.63 g/l part A					121°C/15 min.		
		10.00 g/l part B	28.36 L		7.0 <u>+</u> 0.2	None			