TECHNICAL SHEET

B910	**ACETAMIDE AGAR (TWIN PACK)**
Formula	
Ingredient:	**gms/lit.**
Part A:	-
Acetamide	10.00
Part B:	-
Sodium chloride	5.00
Dipotassium hydrogen phosphate	1.39
Potassium dihydrogen phosphate	0.73
Magnesium sulphate	0.50
Phenol red	0.012
Agar	15.00
Final pH (at 25°C):	7.0 ± 0.2

Directions:

Suspend 22.63 grams of part B in 1000 ml distilled water. Add 10.0 grams of Part A. Heat to boiling to dissolve the medium completely. Dispense in tubes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes in a slanted position.

Principle :

The medium contains inorganic salts and acetamide a sole carbon and nitrogen source. Sodium chloride maintains the osmotic equilibrium. Phenol red is the pH indicator. Organisms growing in the medium metabolize acetamide by the process of deamination (acylamidase activity). This ability is shown by Pseudomonas aeruginosa, Pseudomonas acidovorans Group III (Achromobacter xylosoxidans) and Alcaligens odorans. Deamination of acetamide produces ammonia which increases the pH of the media causing a corresponding colour change from yellow – orange to purplish red. Some strains deamidate acetamide slowly and may require upto 7 days.

QC Tests – (I)Dehydrated Medium			
	Colour :	Part A) Colourless Part B) Light yellow to brick red	
	Appearance :	Part A) Deliquescent crystals Part B) Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating) :	7.0 ± 0.2	
	Colour (post autoclaving/heating) :	Orange	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after an incubation at 35-37°C for 4-7 days.		
	MICROORGANISM (ATCC)	GROWTH	DEAMINATION
	Pseudomonas aeruginosa 27853)	Good –luxuriant	Positive reaction, purplish red colour within 7 days
	Pseudomonas maltophilia (13637)	Good –luxuriant	Negative reaction ,no purplish red colour within 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 encountered that fail to grow or grow poorly on this medium.
Use:	For confirmation 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 on Preparation (500g)	pH (25°C)	Supplement	Sterilization
B910	22.63 g/l part A 10.00 g/l part B	15.32 L 28.36 L	7.0 ± 0.2	None None	121^{0}C/15 min.

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