

TECHNICAL SHEET

B1134	ACETAMIDE NUTRIENT BROTH (TWIN PACK)				
Formula					
Ingredient:			gms/lit.		
Part A:					
Magnesium sulphate			0.158		
Sodium chloride			0.20		
Sodium molybdate			0.005		
Ferrous sulphate			0.0005		
Dipotassium hydrogen phosphate			0.20		
Part B:					
Acetamide			2.00		
Final pH (at 25°C):			7.0 ± 0.2		
Directions :					
Suspend 0.56 grams of Part A in 1000 ml distilled water. Add 2 grams of Part B. Heat if necessary, to dissolve the medium completely. Dispense in tubes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.					
Principle :					
Acetamide Nutrient Broth contains various inorganic salts and acetamide as sources of carbon and nitrogen. Organisms growing in this medium metabolize acetamide, thereby liberating ammonia. This liberated ammonia can be detected by Nessler's reagent, which confirms <i>Pseudomonas aeruginosa</i> . Magnesium sulphate, ferrous sulphate and sodium molybdate are sources of ions that stimulate metabolism. Sodium chloride maintains osmotic equilibrium. Dipotassium hydrogen phosphate provides buffering to the medium.					
QC Tests – (I) Dehydrated Medium					
Colour :		Part A) White to cream Part B) White to cream			
Appearance :		Part A) Homogeneous Free Flowing powder Part B) deliquescent crystals			
(II) Rehydrated medium					
pH (post autoclaving/heating):		7.0 ± 0.2			
Colour (post autoclaving/heating):		Colourless			
Clarity (post autoclaving/heating):		clear solution in tubes with slight precipitate			
(III) Q.C. Test Microbiological					
Cultural characteristics observed after 4-7 days at 35-37°C.					
MICROORGANISM (ATCC)		GROWTH		DEAMINATION	
Pseudomonas aeruginosa 27853)		Good luxuriant		- Positive, yellow colour on addition of 1-2 drops Nessler's reagent after incubation indicates presence of ammonia	
Pseudomonas maltophilia (13637)		Good luxuriant		- Negative, negative no colour change on addition of 1-2 drops Nessler's reagent after incubation indicates absence of ammonia	
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:					
It is used for the detection of microbial utilization of acetamide.					
Storage:					
Dehydrated medium-below 30°C Prepared medium- Between 2 to 8°C.					
Packing:					
500/100 gm. bottle					
Product profile:		Reconstitution		Quantity on Preparation	
				pH (25°C)	
				Supplement	
				Sterilization	
B1134		2.56 g/l (partA+B)		195.31 L (partA+B) 39.06L	
				7.0 ±0.2	
				None	
				121°C/15 min.	

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.

The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.