BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

BS008	**ANTIBIOTIC ASSAY MEDIUM NO.9 (POLYMYXIN BASE AGAR)**
Formula	
Ingredients:	**gms/lit.**
Casein enzymic hydrolysate	17.00
Papaic digest of soyabean meal	3.00
Dextrose	2.50
Sodium chloride	5.00
Dipotassium phosphate	2.50
Agar	20.00
Final pH (at 25°C) :	7.2 ± 0.2

Directions :

Suspend 50.0 gms in 1000ml. distilled water. Heat to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Principle :

Nutrients and growth factors are supplied by the ingredients like Casein enzymic hydrolysate and Papaic digest of soyabean meal etc. Sodium chloride maintains the osmotic equilibrium. Phosphate is included for good buffering action. Dextrose is a carbon and energy source. Agar is the solidifying agent.

QC Tests – (I)Dehydrated Medium			
	Colour :	Cream to light yellow	
	Appearance :	Homogeneous Free Flowing powder	
(II)Rehydrated medium			
	pH (post autoclaving/heating):	7.2 ± 0.2	
	Colour (post autoclaving/heating) :	Cream to light amber	
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent	
(III)Q.C. Test Microbiological			
	Cultural characteristics observed after 18-24 hrs. at 35-37°C.		
	MICROORGANISM (ATCC)	GROWTH	INHIBITION ZONE WITH
	Bordetella bronchiseptica (4617)	Good	Colistimethate sodium, Colistin,Polymyxin B
	Pseudomonas aeruginosa (25619)	luxuriant	Carbenicillin
	Pseudomonas aeruginosa (27853)	luxuriant	Carbenicillin

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 as base layer medium for assaying products containing Polymyxin B.as per USP/IP.
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
BS008	50.0 g/l	9.61 L	7.2 ± 0.2	Nil	121^0C / 15 minutes