

TECHNICAL SHEET

B513I	ORNITHINE DECARBOXYLASE BROTH				
Formula					
Ingredients :		gms/lit.			
L-Ornithine monohydrochloride		5.00			
Yeast extract		3.00			
Glucose		1.00			
Bromo cresol purple		0.015			
Final pH (at 25°C) : 6.8 ± 0.2					
Directions :					
Suspend 9.01 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. After inoculation overlay the tubes with 2-3 ml mineral oil.					
Principle :					
Medium contains Yeast extract in the medium provides nitrogen and other nutrients necessary to support bacterial growth. The amino acid ornithine is added to detect the production of ornithine decarboxylase. Glucose is the fermentable carbohydrate, which during the initial stages of incubation, is fermented by the organisms with acid production, which results in colour change of the pH indicator (BCP) to yellow. The production of amine after degradation of ornithine elevates the pH of the medium towards alkalinity, changing the color of the indicator from yellow to purple or violet. If the organism does not produce the appropriate enzyme, the medium remains acidic or yellow in colour.					
QC Tests – (I) Dehydrated Medium					
	Colour :	Light yellow to light green			
	Appearance :	Homogeneous Free Flowing powder			
(II) Rehydrated medium					
	pH (post autoclaving/heating) :	6.8 ± 0.2			
	Colour (post autoclaving/heating) :	Dark Purple			
	Clarity (post autoclaving/heating) :	Clear to slightly opalescent			
(III) Q.C. Test Microbiological					
	Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours. Inoculated tubes are overlaid with mineral oil.				
	MICROORGANISM (ATCC)	ORNITHINE DECARBOXYLATION			
	Escherichia coli (25922)	Variable reaction			
	Enterobacter aerogenes ATCC 13048	positive reaction, purple colour			
	Klebsiella pneumoniae (13883)	negative reaction, yellow colour			
	Proteus mirabilis (25933)	negative reaction, yellow colour			
	Proteus vulgaris (13315)	positive reaction, purple colour			
	Salmonella Paratyphi A (9150)	positive reaction, purple colour			
	Salmonella Typhi (6539)	negative reaction, yellow colour			
	Shigella flexneri (12022)	negative reaction, yellow colour			
	Shigella sonnei (25931)	positive reaction, purple colour			
	Yersinia enterocolitica (27729)	positive reaction, purple colour			
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 detection of the ability of microorganisms to decarboxylate ornithine.				
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
B513I	9.01 g/l	55.5 L	6.8 ± 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 BIOMARKLABORATORIES publications.

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