BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

B1009	**DICHLORAN GLYCEROL MEDIUM BASE**

Formula

Ingredients :	**gms/lit.**
Peptic digest of animal tissue	5.00
Dextrose	10.00
Monopotassium phosphate	1.00
Magnesium sulphate	0.50
Chloramphenicol	0.10
Dichloran	0.002
Agar	15.00

Final pH (at 25°C) : 5.6 ± 0.2

Directions :

Suspend 15.8 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Add 110 grams of glycerol (Analytical Reagent Grade). Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour into sterile Petri plates.

Principle :

Dichloran Glycerol Medium is recommended for isolation and enumeration of xerophilic moulds from dried and semidried foods. Peptic digest of animal tissue provides nitrogen, vitamins and minerals. Dextrose is a carbohydrate source. Phosphate buffers the medium. Magnesium sulfate provides divalent cations and sulfate. Dichloran is an antifungal agent, added to the medium to reduce colony diameters of spreading fungi. The glycerol at 18% (w/w) lowers the water activity Chloramphenicol inhibits gram – negative and gram – positive bacteria.

QC Tests – (I)Dehydrated Medium		
	Colour :	Cream to light yellow
	Appearance :	Homogeneous Free Flowing powder
(II)Rehydrated medium		
	PH (post autoclaving/heating) :	5.6 ± 0.2
	Colour (post autoclaving/heating) :	Medium amber
	Clarity (post autoclaving/heating) :	Slightly opalescent
(III)Q.C. Test Microbiological		
	Cultural characteristics observed with added 22 grams of glycerol after an incubation at 25°C for upto 6 days.	
	MICROORGANISM (ATCC)	GROWTH
	Mucor racemosus (42647)	Good - luxuriant
	Saccharomyces cerevisiae (9763)	Good – luxuriant
	Candida albicans (10231)	Good – luxuriant
	Escherichia coli (25922)	Inhibited
	Bacillus subtilis (6633)	Inhibited

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 selective isolation of xerophilic molds from food 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
B1009	31.6g/l	15.82L	5.6 ± 0.2	Glycerol	121^0C / 15 minutes

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