

**TECHNICAL SHEET**

<b>B1438</b>	<b>Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)</b>	
<b>Formula</b>		
<b>Ingredients:</b>	<b>gms/lit.</b>	
Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)	<b>B1438 - Dichloran Rose Bengal Chloramphenicol Agar (DRBC Agar)</b>	
<b>Ingredients</b>	<b>g / L</b>	<b>Ingredients</b>
Enzymatic digest of animal & plant tissues	5.000	Peptic digest of animal tissue
D-Glucose (C <sub>6</sub> H <sub>12</sub> O <sub>6</sub> )	10.000	D-Glucose
Potassium dihydrogen phosphate (KH <sub>2</sub> PO <sub>4</sub> )	1.000	Potassium dihydrogen phosphate
Magnesium sulphate (MgSO <sub>4</sub> .H <sub>2</sub> O)	0.500	Magnesium sulphate
Rose Bengal	0.025	Rose Bengal
Chloramphenicol	0.1	Dicloran
Dichloran (2,6-dichloro-4-nitroaniline)	0.02	Agar
Agar	12.000-15.000	Final pH after sterilization (at 25°C)
Final pH after sterilization (at 25°C)	5.6 ± 0.2	5.6 ± 0.2
Final pH (at 25°C): 5.6 ± 0.2		
<b>Directions:</b>		
Suspend 15.76 grams in 500 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 50°C and aseptically add sterile reconstituted contents of 1 vial of Chloramphenicol Selective Supplement (BF004). Mix well and pour into sterile petri plates.		
<b>Principle:</b>		
Peptic digest of animal tissue provides nitrogenous compounds, carbon, long chain amino acids, vitamins and other essential growth nutrients. Dextrose (Glucose) 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. Rose Bengal exhibits an improved inhibitory activity at pH 5.6. The presence of rose bengal in the medium suppresses the growth of bacteria and restricts the size and colonies of the more rapidly growing moulds. Chloramphenicol is included to inhibit the growth of bacteria present in environmental and food samples. Inhibition of growth of bacteria and restriction of spreading of more-rapidly growing moulds aids in the isolation of slow-growing fungi by preventing their overgrowth by more-rapidly growing species		
<b>QC Tests – (I)Dehydrated Medium</b>		
Colour:	Light yellow to pink	
Appearance:	Homogeneous Free Flowing powder	
<b>(II)Rehydrated medium</b>		
pH (post autoclaving/heating):	5.6 ± 0.2	
Colour (post autoclaving/heating):	Pink	
Clarity (post autoclaving/heating):	Clear to slightly opalescent	
<b>(III)Q.C. Test Microbiological</b>		
Cultural characteristics observed after up to 5 days at 25 ± 1°C.		
<b>MICROORGANISM (ATCC)</b>	<b>GROWTH</b>	
Candida albicans (10231)	Good-luxuriant	
Saccharomyces cerevisiae ATCC (9763)	Good-luxuriant	
Mucor racemosus ATCC 42647	good-luxuriant	
Aspergillus brasiliensis(16404)	good-luxuriant	

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	Bacillus subtilis (6633)	Inhibited			
	Escherichia coli ATCC 25922	Inhibited			
	Escherichia coli(8739)	Inhibited			
<b>Precautions :</b>	1. For Laboratory Use.				
	2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.				
<b>Limitations :</b>	<ol style="list-style-type: none"> <li>Individual organisms differ in their growth requirement and may show variable growth patterns on the medium.</li> <li>Further biochemical identification is necessary for confirmation.</li> <li>This medium should not be exposed to direct light as rose Bengal undergoes photo-degradation leading to formation of toxic chemicals for fungi.</li> </ol>				
<b>Use:</b>	Recommended for selective isolation of fungi-yeasts and moulds of significance in food spoilage. The composition and performance criteria are in accordance with ISO 21527-1 and ISO 11133:2014 (E) /Amd. :2020				
<b>Storage:</b>	Dehydrated medium- below 30 ° C Prepared mediums– Between 2 to 8°C.				
<b>Packing :</b>	500 gm bottle.				
<b>Product profile:</b>	Reconstitution	Quantity on Preparation (500g)	pH (25°C)	Supplement	Sterilization
<b>B1438</b>	31.5 g/l	15.873 L	5.6 ± 0.2	Chloramphenicol Selective supplement (BF004)	121 <sup>0</sup> 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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