

TECHNICAL SHEET

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|--|--|---------------------------------|
| B1439 | DG18(DICHLORAN GLYCEROL) AGAR BASE | |
| Formula | | |
| Ingredients: | gms/lit. | |
| Enzymatic digest of casein | 5.00 | |
| D-Glucose | 10.00 | |
| Potassium dihydrogen phosphate | 1.00 | |
| Magnesium sulphate | 0.50 | |
| Dichloran | 0.002 | |
| Agar | 13.50 | |
| Final pH (at 25°C) : 5.6 ± 0.2 | | |
| Directions : | | |
| Suspend 15.0 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. 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. | | |
| Principle : | | |
| Dichloran Glycerol Medium is recommended for isolation and enumeration of xerophilic moulds from dried and semidried foods. The glycerol at 18% (w/w) lowers the water activity. Dichloran inhibits spreading of mucoraceous fungi and restricts colony size of other genera. 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 after up to 5 days at 25±1°C. | |
| | MICROORGANISM (ATCC) | GROWTH |
| | Mucor racemosus (42647) | Good - luxuriant |
| | Saccharomyces cerevisiae (9763) | 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 : | Recommended for selective isolation of xerophilic moulds from food samples. The composition & performance criteria are in accordance with ISO 21527-2. | |
| Storage : | Dehydrated medium- below 30 ° C Prepared mediums- Between 2 to 8°C. | |
| Packing : | 500 gm bottle | |

Refer disclaimer overleaf

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| Product profile: | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
|-------------------------|----------------|--------------------------------|-----------|---|--------------------|
| B1439 | 30.0 g/l | 16.67 L | 5.6 ± 0.2 | Chloramphenicol Selective Supplement (BF004) and glycerol | 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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