

TECHNICAL SHEET

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|--|--|---|--------------------------------|-----------|---------------------------------|
| 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 |
| B1009 | | 31.6g/l | 15.82L | 5.6 ± 0.2 | Glycerol |
| | | | | | 121 ⁰ 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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