

TECHNICAL SHEET

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| B1274 | UNIVERSAL LIQUID MEDIUM, MODIFIED | | | | |
| Formula | | | | | |
| Ingredients: | gms/lit. | | | | |
| Peptonized milk | 15.00 | | | | |
| Yeast extract | 6.10 | | | | |
| Dextrose | 16.10 | | | | |
| Tomato juice | 12.10 | | | | |
| Dipotassium phosphate | 0.30 | | | | |
| Monopotassium phosphate | 0.30 | | | | |
| Magnesium sulphate | 0.10 | | | | |
| Sodium chloride | 0.006 | | | | |
| Ferrous sulphate | 0.006 | | | | |
| Manganese sulphate | 0.006 | | | | |
| Cycloheximide | 0.005 | | | | |
| Final pH (at 25°C) : 6.3 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 50.02 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 10 minutes. The sterile medium should be stored in the dark at room temperature. Examine any surface film or pellicle microscopically for aerobic bacteria. | | | | | |
| Principle : | | | | | |
| Yeast extract is a source of trace elements, vitamins and amino acids. Peptonized milk contains lactose as an energy source. Tomato juice is a source of carbon, protein and nutrients. Dextrose provides additional carbon. Dipotassium and monopotassium phosphates provide buffering capability. Magnesium sulphate, ferrous sulphate and manganese sulphate are sources of ions that simulate metabolism. Sodium chloride maintains the osmotic equilibrium. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| Colour : | Cream to yellow | | | | |
| Appearance : | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | 6.3 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | Medium amber | | | | |
| Clarity (post autoclaving/heating) : | Clear | | | | |
| (III)Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 40 - 48 hrs at 35-37 °C. | | | | | |
| MICROORGANISM (ATCC) | GROWTH | | | | |
| Acinetobacter calcoaceticus (19606) | Good -luxuriant | | | | |
| Lactobacillus fermentum (9338) | Good -luxuriant | | | | |
| Lactobacillus acidophilus (4356) | Good -luxuriant | | | | |
| Proteus vulgaris (13315) | Fair to good | | | | |
| Saccharomyces cerevisiae (9763) | 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 : | It is used in the brewing industry for the cultivation of brewery bacteria, including beer spoilage forms in the brewing industry | | | | |
| 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 |
| B1274 | 50.02g/l | 10.00L | 6.3 ± 0.2 | Nil | 121°C / 10minutes |

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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