

TECHNICAL SHEET

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|--|---|--------------------------------|-----------|------------|--------------------|
| B412 | BPL AGAR | | | | |
| Formula | | | | | |
| Ingredients : | gms/lit. | | | | |
| Meat peptone | 7.00 | | | | |
| Sodium chloride | 5.00 | | | | |
| Lactose | 15.00 | | | | |
| Phenol red | 0.04 | | | | |
| Brilliant green | 0.005 | | | | |
| Agar | 13.00 | | | | |
| Final pH (at 25°C) : 6.5 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 40.04 gms. In 1000 ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | |
| Principle : | | | | | |
| The medium contains meat peptone which supplies the nitrogenous nutrients to the organisms. Lactose is the fermentable carbohydrate, which after degradation yields acid production, indicated by the phenol red indicator. In the acidic range, phenol red turns yellow white in alkaline conditions it turns red. Brilliant green inhibits gram-positive organisms and also Salmonella typhi and Shigella species. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| Colour : | Light pink | | | | |
| Appearance : | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | 6.5 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | Brownish green | | | | |
| Clarity (post autoclaving/heating) : | Clear to slightly opalescent | | | | |
| (III)Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 18- 24 hrs at 35-37°C in a humid atmosphere. | | | | | |
| MICROORGANISM (ATCC) | GROWTH | COLOUR OF COLONY | | | |
| Escherichia coli (25922) | Poor – Good | Yellow | | | |
| Salmonella enteritidis (13076) | Good – luxuriant | Pink to red | | | |
| Salmonella typhimurium (14028) | Good – luxuriant | Pink to red | | | |
| Bacillus subtilis (6633) | None- poor | | | | |
| Enterococcus faecalis (29212) | None-poor | | | | |
| Staphylococcus aureus (25923) | 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 isolation and identification of Salmonellae except Salmonella typhi in faeces, urine, milk and other materials. | | | | |
| 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 |
| B412 | 40g/l | 12.500L | 6.5 ± 0.2 | NIL | 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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