

TECHNICAL SHEET

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|--|--------------------------------|---------------------------------|--|--------------------------------|--|
| B850 | M-BRILLIANT GREEN BROTH | | | | |
| Formula | | | | | |
| Ingredients : | | gms/lit. | | | |
| Proteose peptone | | 20.00 | | | |
| Yeast extract | | 6.00 | | | |
| Lactose | | 20.00 | | | |
| Saccharose | | 20.00 | | | |
| Sodium chloride | | 10.00 | | | |
| Phenol red | | 0.16 | | | |
| Brilliant green | | 0.25 | | | |
| Final pH (at 25°C) : 6.9 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 76.13 gms. in 1000ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 35°C and saturate sterile absorbent cotton pad with 2ml of the broth. The medium should be used within 24 hours of rehydration. | | | | | |
| Principle : | | | | | |
| Proteose peptone provides nitrogen, mineral and amino acids. Yeast extract is the vitamin source. Lactose and saccharose are the carbohydrates for bacterial growth. Sodium chloride maintains osmotic balance of the medium and Phenol red is the indicator of carbohydrate fermentation. Brilliant green is selective agent. | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | |
| Colour : | | Pink | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | |
| (II) Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | | 6.9 ± 0.2 | | | |
| Colour (post autoclaving/heating) : | | Greenish brown | | | |
| Clarity (post autoclaving/heating) : | | Slightly opalescent | | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 18 -24 hrs. at 35-37°C on membrane filter in humid atmosphere. | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | |
| Salmonella enteritidis (13076) | | Luxuriant | | Pinkish white | |
| Salmonella typhimurium (14028) | | Luxuriant | | Pinkish white | |
| Salmonella typhi (6539) | | Poor – good | | Reddish pink | |
| Escherichia coli (25922) | | None – poor | | Yellowish green | |
| 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 primary screening of Salmonella in polluted water using membrane filter technique. | | | | | |
| Storage : | | | | | |
| Dehydrated medium- below 30°C Prepared medium- Freshly prepared. | | | | | |
| Packing : | | | | | |
| 500 gm bottle | | | | | |
| Product profile: | | Reconstitution | | Quantity on Preparation (500g) | |
| | | pH (25°C) | | Supplement | |
| | | Sterilization | | | |
| B850 | | 76.13g/l | | 6.56L | |
| | | 6.9 ± 0.2 | | NIL | |
| | | DO NOT AUTOCLAVE | | | |

Disclaimer:

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