

TECHNICAL SHEET

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|---|---------------------------------------|---|--|--------------------------------|--|
| B1150 | BRILLIANT GREEN AGAR, MODIFIED | | | | |
| Formula | | | | | |
| Ingredients : | | gms/lit. | | | |
| Proteose peptone | | 10.00 | | | |
| Yeast extract 3.00 | | | | | |
| Lactose 10.00 | | | | | |
| Sucrose 10.00 | | | | | |
| Sodium chloride 5.00 | | | | | |
| Phenol red 0.08 | | | | | |
| Brilliant green 0.0125 | | | | | |
| Agar 20.00 | | | | | |
| Final pH (at 25°C) : 6.9 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 58.09 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. AVOID OVERHEATING. For more selectivity, aseptically add rehydrated Sulpha supplement (BF020). Mix well before pouring into sterile petri plates. | | | | | |
| Principle : | | | | | |
| Brilliant Green Agar Modified contains Yeast Extract and Proteose Peptone as sources of carbon, nitrogen, vitamins and minerals. Yeast Extract supplies B-complex vitamins which stimulate bacterial growth, Lactose and Sucrose are carbohydrate sources. In the presence of Phenol Red, a pH indicator, non-lactose and / or non-sucrose – fermenting Salmonella will produce red colonies. Brilliant Green inhibits gram positive organisms and many gram-negative bacteria, except Salmonella. Agar is a solidifying agent. | | | | | |
| QC Tests – (I) Dehydrated Medium | | | | | |
| Colour : | | Light yellow to light 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) : | | Clear to slightly opalescent | | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 18 –24 hrs at 35-37°C. | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | |
| Salmonella typhimurium (14028) | | Good-luxuriant | | Pinkish white | |
| Salmonella enteritidis (13076) | | Luxuriant | | Pinkish white | |
| Salmonella typhi (6539) | | Poor – good | | Reddish pink | |
| Salmonella Abony (NCTC 6017) | | Good-luxuriant | | Pinkish white | |
| Escherichia coli (25922) | | None-poor | | Yellowish green | |
| Escherichia coli (8739) | | None-poor | | Yellowish green | |
| Escherichia coli (NCTC 9002) | | 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. 2. Due to the nutritional requirements and inhibitory characteristics of the organisms themselves, organisms other than Salmonella spp., such as Morganella morgani and some Enterobacteriaceae may grow on the medium. 3. Confirmatory tests, such as fermentation reactions and seroagglutination, should be carried out on all presumptive Salmonella spp. | | | |
| Use : | | For selective isolation of Salmonellae other than Salmonella typhi from faeces, foods, dairy products, etc. | | | |
| Storage : | | Dehydrated medium- below 30°C Prepared medium– Between 2 to 8°C. | | | |
| Packing : | | 500 gm. bottle | | | |
| Product profile: | | Reconstitution | | Quantity on Preparation (500g) | |
| B1150 | | 58.09g/l | | 8.607L | |
| | | pH (25°C) | | Supplement | |
| | | 6.9 ± 0.2 | | Sulpha supplement (BF020) | |
| | | | | Sterilization | |
| | | | | 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 BIOMARK LABORATORIES publications.

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