

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

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|---|---|--------------------------------|-----------|-----------------------------|--|
| B595 | LOEFFLER MEDIUM BASE | | | | |
| Formula | | | | | |
| Ingredients : | | | | | |
| | | gms/lit. | | | |
| Peptone, special | | 2.50 | | | |
| Meat extract B# | | 2.50 | | | |
| Sodium chloride | | 1.25 | | | |
| Dextrose | | 2.50 | | | |
| #- Equivalent to Beef extract | | | | | |
| Final pH (at 25°C) : 7.3 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 8.75 gms.in 250ml. distilled water. Dissolve the medium completely and sterilize by autoclaving at 10 lbs pressure (115°C) for 20 minutes. Cool to 50-55°C and aseptically add 750 ml of sterile horse serum (BF021). Mix well and aseptically dispense into sterile tubes. Sterilize the medium by inspissation at 80-85°C for 2 hours in free flowing steam for atleast 3 consecutive days. | | | | | |
| Principle : | | | | | |
| The high serum content helps in determining proteolytic activity of organisms. It is also used for demonstration of pigmentation and ascospores. Peptic digest of animal tissue, beef extract provide essential growth nutrients. Dextrose is the source of fermentable carbohydrate and energy. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| | Colour : | | | | Yellow |
| | Appearance : | | | | Homogeneous Free Flowing powder |
| (II)Rehydrated medium | | | | | |
| | pH (post autoclaving/heating) : | | | | 7.3 ± 0.2 |
| | Colour (post autoclaving/heating) : | | | | a) Basal medium : Light amber b) With addition serum and after coagulation opalescent slants forms in tubes |
| | Clarity (post autoclaving/heating) : | | | | a) Clear b) Opalescent |
| (III)Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 3-4 days at 35-37°C. | | | | | |
| | MICROORGANISM (ATCC) | | | | GROWTH |
| | Corynebacteriumdiphtheriae (11913) | | | | Fair – good |
| | Pseudomonas aeruginosa (10145) | | | | Good (green colonies with proteolysis) |
| | Staphylococcus aureus (25923) | | | | Good (yellow to gold colonies) |
| 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 cultivation of Corynebacteriumdiphtheriae from clinical specimens and in pure cultures,detection of chromogenesis,proteolysis and the production of ascospores. | | | | |
| 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 |
| B595 | 35.0 g/l | 14.28 g/l | 7.3 ± 0.2 | sterile horse serum (BF021) | 115 ⁰ C/20 min |

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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