

BIOMARK Laboratories-INDIA

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TECHNICAL SHEET

| | | | | | |
|---|---|---|-----------|------------|--------------------|
| B1162 | COOKED MEAT MEDIUM W/ GLUCOSE, HEMIN AND VITAMIN K | | | | |
| Formula | | | | | |
| Ingredients : | | gms/lit. | | | |
| Beef heart, granules | | 98.00 | | | |
| Peptic digest of animal tissue | | 20.00 | | | |
| Sodium chloride | | 5.00 | | | |
| Glucose | | 5.00 | | | |
| Yeast extract | | 5.00 | | | |
| Hemin | | 0.005 | | | |
| Vitamin K | | 0.001 | | | |
| Final pH (at 25°C) : 7.2 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 13.3 grams in 100 ml distilled water. Mix thoroughly and allow to stand for 15 minutes until all the particles are thoroughly wetted. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | |
| Principle : | | | | | |
| Beef Heart granules, which provides amino acids and nutrients. It also contains glutathione, a reducing substance which permits the growth of obligate anaerobes. The sulphhydryl groups which impart reducing effect are more available in denatured protein and hence the cooked meat is added in the medium. The added supplements glucose, yeast extract, hemin and vitamin K act as growth enhancers for anaerobic microorganisms. Blackening and disintegration of the meat particles indicate proteolysis. | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | |
| | Colour : | Brown | | | |
| | Appearance : | Granules with powder | | | |
| (II) Rehydrated medium | | | | | |
| | pH (post autoclaving/heating) : | 7.2 ± 0.2 | | | |
| | Colour (post autoclaving/heating) : | Medium amber | | | |
| | Clarity (post autoclaving/heating) : | Clear to slightly opalescent supernatant over insoluble granules. | | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 40-48 hrs. at 35-37°C. | | | | | |
| | MICROORGANISM (ATCC) | GROWTH | | | |
| | Clostridium butyricum (13732) | Luxuriant | | | |
| | Clostridium perfringens (12924) | Luxuriant | | | |
| | Clostridium sporogenes (11437) | Luxuriant | | | |
| | Enterococcus faecalis (29212) | Luxuriant | | | |
| 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 for cultivation of aerobes and anaerobes, especially pathogenic clostridia and also for the maintenance of stock cultures. | | | | |
| 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 |
| B1162 | 133 g/l | 3.759 L | 7.2 ± 0.2 | NIL | 121°C / 15 minutes |