

TECHNICAL SHEET

| | | | | | |
|--|---|---------------------------------|------------------|------------|-------------------|
| B811 | VIBRIO AGAR | | | | |
| Formula | | | | | |
| Ingredients : | | gms/lit. | | | |
| Casein enzymic hydrolysate | | 4.00 | | | |
| Proteose peptone | | 3.00 | | | |
| Yeast extract | | 5.00 | | | |
| Sucrose | | 20.00 | | | |
| Sodium thiosulphate | | 6.50 | | | |
| Sodium citrate | | 10.00 | | | |
| Sodium deoxycholate | | 1.00 | | | |
| Sodium chloride | | 10.00 | | | |
| Oxgall | | 5.00 | | | |
| Sodium lauryl sulphate | | 0.20 | | | |
| China blue | | 0.20 | | | |
| Cresol red | | 0.020 | | | |
| Agar | | 15.00 | | | |
| Final pH (at 25°C) : 8.5 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 79.92 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and pour into sterile Petri plates. | | | | | |
| Principle: | | | | | |
| Casein enzymic hydrolysate, proteose peptone, yeast extract provide nitrogenous, carbonaceous compounds, sulphur, vitamin B complex and other essential growth nutrients. Sodium citrate, sodium deoxycholate and oxgall inhibit gram –positive organisms and coliforms. Sucrose is the fermentable carbohydrate and sodium thiosulphate in combination with ferric citrate detects H ₂ S production. Thiosulphate also acts as a sulphur source. Alkaline pH of this medium helps in recovery of Vibrio cholerae. China blue and cresol red are pH indicators. | | | | | |
| QC Tests – (I) Dehydrated Medium | | | | | |
| Colour : | | Greyish yellow | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | |
| (II) Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | | 8.5 ± 0.2 | | | |
| Colour (post autoclaving/heating) : | | Reddish purple | | | |
| 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 | | |
| | Vibrio cholerae (15748) | Good –luxuriant | Blue | | |
| | Vibrio parahaemolyticus (17802) | Good –luxuriant | Slightly reddish | | |
| | Enterococcus faecalis (29212) | None - poor | Yellow | | |
| | Pseudomonas aeruginosa (27853) | None - poor | Blue | | |
| | Escherichia coli (25922) | Inhibited | - | | |
| | Salmonella typhi (6539) | Inhibited | - | | |
| | Shigella flexneri (12022) | 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 selective cultivation of Vibrio species | | | | |
| 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 |
| B811 | 79.92 g/l | 6.256 L | 8.5 ± 0.2 | NIL | DO NOT AUTOCLAVE. |

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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