

TECHNICAL SHEET

| | | | | | |
|---|--|--|-------------------------------|-------------------|------------------------------------|
| B505 | | GLUTAMATE STARCH PHENOL RED AGAR | | | |
| Formula | | | | | |
| Ingredients : | | gms/l it. | | | |
| L-glutamate, sodium | | 10.00 | | | |
| Starch soluble | | 20.00 | | | |
| Monopotassium phosphate 2.00 | | 0.50 | | | |
| Magnesium sulphate | | 0.36 | | | |
| Phenol red | | 12.00 | | | |
| Agar | | | | | |
| Final pH (at 25°C) : 7.2 ± 0.2 | | | | | |
| Directions : | | | | | |
| Suspend 45 gms in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and add 100 IU/ml Penicillin G.sodium salt and if desired 10 mcg/ml Pimaricin. Mix well and pour into sterile petri plates. | | | | | |
| Principle : | | | | | |
| L-glutamte and starch are the sole sources of nutrients where many accompanying microorganisms can not metabolize these compounds. Aeromonas degrades the starch with acid production which causes the change in colour of phenol red to yellow. Pseudomonas grow luxuriantly on this medium but do not degrade starch. The selective inhibitors like Penicillin and Pimaricin suppresses the growth of amny gram – positive organisms and fungi respectively and thus improves the selectivity of this medium. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| | | Colour : | | | |
| | | Pink | | | |
| | | Appearance : | | | |
| | | Homogeneous Free Flowing powder | | | |
| (II)Rehydrated medium | | | | | |
| | | pH (post autoclaving/heating) : | | | |
| | | 7.2 ± 0.2 | | | |
| | | Colour (post autoclaving/heating) : | | | |
| | | Red | | | |
| | | Clarity (post autoclaving/heating) : | | | |
| | | Clear to slightly opalescent | | | |
| (III)Q.C. Test Microbiological | | | | | |
| | | Cultural characteristics observed after 24 - 48 hrs. at 25°C. | | | |
| | | MICROORGANISM (ATCC) | GROWTH | STARCH HYDROLYSIS | |
| | | Aeromonas hydrophila (7966) | Luxuriant | + | |
| | | Pseudomonas aeruginosa (27853) | Luxuriant | - | |
| | | Key : + = positive reaction, acid production, yellow colour - = negative reaction, no acid production | | | |
| 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 detection of Pseudomonas and Aeromonas species in foodstuffs and wastewater and equipments in food industry. | | | | | |
| 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 |
| B505 | | 45g/l | 11.11 L | 7.2 ± 0.2 | 100 IU/ml Penicillin G.sodium salt |
| | | | | | 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 BIOMARKLABORATORIES publications.

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