

TECHNICAL SHEET

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|---|----------------------------------|---------------------------------|--------------|--------|---------------|--------------|
| B260 | SELLERS DIFFERENTIAL AGAR | | | | | |
| Formula | | | | | | |
| Ingredients : | | gms/lit. | | | | |
| Peptic digest of animal tissue | | 20.00 | | | | |
| Yeast extract | | 1.00 | | | | |
| L-arginine | | 1.00 | | | | |
| D-mannitol | | 2.00 | | | | |
| Sodium chloride | | 2.00 | | | | |
| Sodium nitrate | | 1.00 | | | | |
| Sodium nitrite | | 0.35 | | | | |
| Magnesium sulphate | | 1.50 | | | | |
| Dipotassium phosphate | | 1.00 | | | | |
| Bromo thymol blue | | 0.04 | | | | |
| Phenol red | | 0.008 | | | | |
| Agar | | 15.00 | | | | |
| Final pH (at 25°C) : 6.7 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 44.90 gms. in 1000ml. distilled water. Heat to boiling to dissolve the medium completely. Dispense in test tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool the tubes medium is slanted position. Just before inoculation add 0.15 ml. or 2 drops of 50% dextrose solution to each slant. | | | | | | |
| Principle : | | | | | | |
| Yeast extract and peptic digest of animal tissue are the sources of carbon and nitrogen compounds as well as vitamins and minerals. Oxidation of dextrose by the organisms is readily visible as a yellow band at the slant-butt junction. D-Mannitol and magnesium sulphate stimulate fluorescence while nitrogen gas production is stimulated by dipotassium phosphate. Sodium nitrate and nitrite serve as substrates for the production of nitrogen gas for denitrifying bacteria. Phenol red and bromo thymol blue are the pH indicators. Arginine dihydrolase positive reaction is indicated by the formation of blue colour. | | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | | |
| Colour : | | Light Yellow | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II) Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 6.7 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Green | | | | |
| Clarity (post autoclaving/heating) : | | Slightly opalescent | | | | |
| (III) Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after 18 - 24 hrs at 35 - 37°C. | | | | | | |
| MICROORGANISM (ATCC) | GROWTH | SLANT | BUTT | BAND | *FLUORESCENCE | NITROGEN GAS |
| Acinetobacter calcoaceticus (19606) | Good | Blue | Green | Yellow | - | - |
| Alcaligenes faecalis (8750) | Good | Blue | Blue - green | - | - | + |
| Pseudomonas aeruginosa (27853) | Good | Blue - green | Blue - green | Blue | + | + |
| Key: * = yellow- green fluorescence under UV light. | | | | | | |

Refer disclaimer Overleaf

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| 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 differentiation and identification of gram-negative nonfermentative bacilli particularly <i>Pseudomonas aeruginosa</i> and <i>Acinetobacter calcoaceticus</i> . | | | | |
| 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 |
| B260 | 44.90g/l | 11.136L | 6.7 ± 0.2 | 0.15 ml. or 2 drops of 50% dextrose solution | 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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