

TECHNICAL SHEET

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| B515 | ENDO AGAR BASE | |
| Formula | | |
| Ingredients : | gms/lit. | |
| Peptic digest of animal tissue | 10.00 | |
| Lactose | 10.00 | |
| Dipotassium phosphate | 3.50 | |
| Sodium sulphite | 2.50 | |
| Agar | 12.00 | |
| Final pH (at 25°C) : | 7.5 ± 0.2 | |
| Directions : | | |
| Suspend 38 grams in 1000 ml distilled water. Add 4 ml of 10% Basic Fuchsin (BF052). Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well before pouring into sterile Petri plates. If the solidified culture medium is somewhat too red, then to remove the colour, add a few drops (max. 1 ml/litre) of a freshly prepared 10% Sodium sulphite solution and boil. | | |
| Principle : | | |
| The medium contains peptic digest of animal tissue which provide nitrogen, carbon, vitamins and minerals required for bacterial growth. Sodium sulphite and basic fuchsin (BF) has inhibitory effect on gram-positive microorganisms. Lactose fermenting coliforms produce aldehyde and acid. The aldehyde in turn liberates fuchsin from the fuchsin-sulphite complex, giving rise to a red colouration of colonies. With Escherichia coli, this reaction is very pronounced as the fuchsin crystallizes, exhibiting a permanent greenish metallic luster (fuchsin luster) to the colonies. | | |
| QC Tests - (I) Dehydrated Medium | | |
| Colour : | Cream to yellow | |
| Appearance : | Homogeneous Free Flowing powder | |
| (II) Rehydrated medium | | |
| pH (post autoclaving/heating) : | 7.5 ± 0.2 | |
| Colour (post autoclaving/heating) : | Orangish pink after addition of BF052 | |
| Clarity (post autoclaving/heating) : | Clear to slightly opalescent gel with fine precipitate | |
| (III) Q.C. Test Microbiological | | |
| Cultural characteristics observed with added Basic fuchsin (BF052) after an incubation at 35-37°C for 18-24 hours. | | |
| MICROORGANISM (ATCC) | GROWTH | COLOUR OF COLONY |
| Enterobacter aerogenes (13048) | Good-luxuriant | Pink |
| Escherichia coli (25922) | Good-luxuriant | Pink to rose red with metallic sheen |
| Salmonella typhi (6539) | Good-luxuriant | Colourless to pale pink |
| Shigella sonnei (25931) | Good-luxuriant | Colourless to pale pink |
| Klebsiella pneumoniae (13883) | Good-luxuriant | Pink, mucoid |
| Proteus vulgaris (13315) | Good-luxuriant | Colourless to pale pink |
| Pseudomonas aeruginosa (27853) | Good-luxuriant | Colourless irregular |
| Enterobacter cloacae (13047) | Good | Pink |
| Salmonella Typhimurium (14028) | Good-luxuriant | Colourless |
| Salmonella Enteritidis (13076) | Good-luxuriant | Colourless |
| Shigella flexneri (12022) | Good-luxuriant | Colourless |
| Streptococcus faecalis (29212) | None-poor | Pink, small |
| Staphylococcus aureus (25923) | Inhibited | --- |
| Bacillus subtilis (6633) | Inhibited | --- |

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. | | | | |
| | 3. Basic fuchsin is a potential carcinogen and care should be taken to avoid inhalation of the powdered dye and contamination of the skin . | | | | |
| 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 preparing Endo Agar to confirm presumptive test for lactose fermenting coliforms. | | | | |
| Storage: | Dehydrated medium- below 30°C Prepared medium – 2 to 8°C. Away from light to avoid photooxidation. | | | | |
| Packing: | 500 gm. bottle | | | | |
| Product profile: | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
| B515 | 38g/l | 13.15L | 7.5 ± 0.2) | 10%Basic Fuchsin (BF052) | 121 ⁰ 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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