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| BS002 | ANTIBIOTIC ASSAY MEDIUM NO.2 (BASE AGAR) | | |
| Formula | | | |
| Ingredients: | | gms/lit. | |
| Peptone | | 6.00 | |
| Yeast extract | | 3.00 | |
| Meat extract# | | 1.50 | |
| Agar | | 15.00 | |
| # Equivalent to Beef extract | | | |
| Final pH (at 25°C): | | 6.6 ± 0.2 | |
| Directions : | | | |
| Suspend 25.5 grams in 1000 ml purified/ 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. Mix well and pour into sterile Petri plates. | | | |
| Principle : | | | |
| Peptone, yeast and meat extract B provide the nitrogenous and carbonaceous compounds, long chain amino acids, vitamins and mineral requirement for the growth of test organisms. This medium provides solidified substratum for growth of organism and supports the over layering of soft agar. | | | |
| QC Tests – (I)Dehydrated Medium | | | |
| | Colour : | Cream to yellow | |
| | Appearance : | Homogeneous Free Flowing powder | |
| (II)Rehydrated medium | | | |
| | pH (post autoclaving/heating): | 6.6 ± 0.2 | |
| | Colour (post autoclaving/heating) : | Amber | |
| | 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 | ANTIBIOTIC ASSAYED BASAL LAYER |
| | Bacillus subtilis (6633) | Luxuriant | - |
| | Micrococcus luteus (10240) | Luxuriant | Bacitracin |
| | Staphylococcus aureus (29737) | Luxuriant | Amikacin, Cephalothin, Cephapirin, Cloxacillin, Cycloserine, Chlortetracycline, Demeclocycline, Doxycycline, Kanamycin, Methacycline, Nafcillin, Oxytetracycline, Rolitetracycline, Tetracycline |
| | Staphylococcus epidermidis (12228) | Good-luxuriant | Novobiocin |
| | Staphylococcus aureus (9144) | Luxuriant | Tylosin |
| | Klebsiella pneumonia (10031) | Luxuriant | Capreomycin, Streptomycin, Troleandomycin, |
| | Enterococcus hirae (10541) | Luxuriant | Gramicidin, Thiostrepton, Tobramycin |
| | Escherichia coli (10536) | Luxuriant | Chloramphenicol, Spectinomycin |

TECHNICAL SHEET

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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. 2. Freshly prepared plates must be used or it may result in erroneous results. | | | | |
| Use: | It is used as a basal medium for microbiological assay of antibiotics. | | | | |
| 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 |
| BS002 | 25.5 g/l | 19.60 L | 6.6 ± 0.2 | Nil | 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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