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|--|---|---|---------------------------|-------------------------|-------------------------|
| B1807 | Mueller Hinton Agar 2% Glucose w/ Methylene blue | | | | |
| Formula | | | | | |
| Ingredients : | Gms /lit. | | | | |
| Meat, infusion from | 300.00 | | | | |
| Casein acid hydrolysate | 17.50 | | | | |
| Starch | 1.50 | | | | |
| Dextrose (Glucose) | 20.00 | | | | |
| Methylene blue | 0.005 | | | | |
| Agar | 17.00 | | | | |
| Final pH (at 25°C) :7.3± 0.1 | | | | | |
| Directions : | | | | | |
| Suspend 58.0 grams in 1000 ml purified/distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15lbs pressure (121°C) for 15 minutes. Cool to 45-50°C. Mix well and pour into sterile Petri Plates. | | | | | |
| Principle : | | | | | |
| Meat, infusion from and casein acid hydrolysate provide nitrogenous compounds, carbon, sulphur and other essential nutrients. Starch acts as a protective colloid against toxic substances present in the medium. Starch hydrolysis yields dextrose, which serves as a source of energy. Dextrose (Glucose) serves as an energy source for fungal cultures while Methylene blue enhances zone edge definition. | | | | | |
| QC Tests – (I)Dehydrated Medium | | | | | |
| | Colour : | Light yellow to yellow may have slight blue tinge | | | |
| | Appearance : | Homogeneous Free Flowing powder | | | |
| (II)Rehydrated medium | | | | | |
| | pH (post autoclaving/heating) : | 7.3 ± 0.1 | | | |
| | Colour (post autoclaving/heating) : | Light amber with greenish tinge | | | |
| | Clarity (post autoclaving/heating) : | Slightly opalescent | | | |
| (III) Q.C. Test Microbiological | | | | | |
| | A luxuriant growth of test organisms was observed on Mueller Hinton Agar, Modified (as per CLSI for antifungal) in 24-48 hours at 33-37°C along with inhibition zones with respective antibiotic concentrations | | | | |
| | MICROORGANISM (ATCC) | GROWTH | Amphotericin B (100units) | Amphotericin B (20 mcg) | Amphotericin B (50 mcg) |
| | Candida albicans ATCC 10231 | Luxuriant | 10 -18 mm | 10 -16 mm | 30 -40 mm |
| | Saccharomyces cerevisiae ATCC 9763 | Luxuriant | 11 -18 mm | 8 -12 mm | 29 -38 mm |
| Precautions : | 1. For Laboratory Use. | | | | |
| | 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. | | | | |

Refer disclaimer Overleaf

TECHNICAL SHEET

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| Limitations : | 1. This medium is recommended for susceptibility testing of pure cultures only. | | | | |
| | 2. Inoculum density may affect the zone size. Heavy inoculum may result in smaller zones or bigger zones. | | | | |
| | 3. Fastidious organisms may not grow on this medium due to nutritional variations. | | | | |
| | 4. Antifungal disc are used to carry out the susceptibility, proper storage of the disc is desired of the disc | | | | |
| | 5. Under certain circumstances, the in vitro results of antifungal susceptibility may not show the same in vivo. | | | | |
| Use: | Recommended for performing antifungal disc diffusion susceptibility of yeasts. . | | | | |
| 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 |
| B263 | 38g/l | 8.620 L | 7.3 ± 0.1 | NIL | 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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