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|--|--|--------------------------------|------------------------------------|-------------------|--------------------|
| B530 | FUCHSIN LACTOSE BROTH | | | | |
| Formula | | | | | |
| Ingredients: | | | gms/lit. | | |
| Peptone, special | | | 5.00 | | |
| Meat extract | | | 3.00 | | |
| Lactose | | | 5.00 | | |
| Basic fuchsin | | | 0.013 | | |
| Final pH (at 25°C): 6.8 ± 0.2 | | | | | |
| Directions: | | | | | |
| Suspend 13.01 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Dispense in tubes containing inverted Durhams tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes | | | | | |
| Principle: | | | | | |
| Peptone special and meat extract in the medium provides nitrogen and other nutrients necessary to support bacterial growth. Basic fuchsin inhibits many gram-positive organisms, which are responsible for false positive results. Lactose is the fermentable carbohydrate. Acid production is observed by the formation of pink to red medium whereas non-fermenters will show no change in the colour of the medium. | | | | | |
| QC Tests - (I) Dehydrated Medium | | | | | |
| Colour: | | | Light pink to purple | | |
| Appearance: | | | Homogeneous Free Flowing powder | | |
| (II) Rehydrated medium | | | | | |
| pH (post autoclaving/heating) : | | | 6.8 ± 0.2 | | |
| Colour (post autoclaving/heating): | | | Light pink | | |
| Clarity (post autoclaving/heating): | | | Clear | | |
| (III) Q.C. Test Microbiological | | | | | |
| Cultural characteristics observed after 18-48hours at 35-37°C | | | | | |
| | MICROORGANISM (ATCC) | GROWTH | ACID | GAS | |
| | Enterobacter aerogenes (13048) | luxuriant | positive reaction, pink-red colour | negative reaction | |
| | Escherichia coli (25922) | luxuriant | positive reaction, pink-red colour | positive reaction | |
| | Salmonella Enteritidis (13076) | luxuriant | negative reaction, no change | negative reaction | |
| | Salmonella Typhimurium (13048) | luxuriant | negative reaction, no change | negative reaction | |
| | Staphylococcus aureus (25923) | inhibited | --- | --- | |
| | Enterococcus faecalis (29212) | inhibited | --- | --- | |
| Precautions : | <ol style="list-style-type: none"> 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: | It can be used for the determination of the coliform titre in the bacteriological examination of water and other materials. | | | | |
| 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 |
| B530 | 13.01g/l | 38.43L | 6.8 ± 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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