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TECHNICAL SHEET

| B1210 LEIFS | N AGAR | |
|-------------------------|--------------|--|
| Formula | | |
| Ingredients: | gms/lit. | |
| Meat extract | 5.00 | |
| Meat peptone | 5.00 | |
| Lactose | 10.00 | |
| Sodium thiosulphate | 5.40 | |
| Sodium citrate | 6.00 | |
| Ferric citrate | 1.00 | |
| Sodium deoxycholate | 3.00 | |
| Neutral red | 0.02 | |
| Agar | 12.00 | |
| Final pH (at 25°C): 7.5 | <u>+</u> 0.2 | |
| Directions : | | |

Suspend 47.42 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. DO NOT AUTOCLAVE OR OVERHEAT. Excessive heating is detrimental. Cool to 45-50°C. Mix well and pour into sterile Petri plates.

Principle:

Meat extract and meat peptone provide essential growth nutrients. Sodium deoxycholate inhibit all gram-positive bacteria. Lactose is added to the medium to allow differentiation of lactose fermenting bacteria such as Escherichia coli from nonlactose fermenting species such as Salmonella and Shigella species. Lactose fermenting strains grow as red to pink colonies because of absorption of neutral red indicator. Sodium thiosulphate and ferric citrate forms the H2 S indicator system. Non-fermenting species grow as colourless colonies with black centres due to production of H2S against Shigella which does not produce H2S

| | <u> </u> | | | | | | | | | | |
|--|-------------------------------------|--|---|---|--|-------------------------|------------|---|-----------------|-----|--|
| QC | Tests - (I)Dehy | drated Medium | | | | | | | | | |
| | Colour: | | | Light yellow to pink | | | | | | | |
| | Appearance : | | | Homogeneous Free Flowing powder | | | | | | | |
| (II)Rehydrated medium | | | | | | | | | | | |
| | pH (post autoclaving/heating): | | | 7.5 ± 0.2 | | | | | | | |
| | Colour (post autoclaving/heating): | | | Reddish orange | | | | | | | |
| | Clarity (post autoclaving/heating): | | | clear to slightly opalescent gel | | | | | | | |
| (III)Q.C. Test Microbiological | | | | | | | | | | | |
| | | | | | n incubation at 35-37°C for 18-24 hours. | | | | | | |
| | MICROORGANISM (ATCC) | | GROWTH | | COLOUR OF COLONY | | LONY | H2S | | | |
| | Escherichia coli (25922) | | poor | | pink | pink w/bile precipitate | | negative reaction | | | |
| | Enterococcus faecalis (29212) | | inhibited | | | | | | | | |
| | Salmonella Enteritidis(13076) | | good-luxuriant | | colourless | | | positive reaction, black centred colonies | | | |
| | Shigella flexneri (12022) | | good | | colourless | | | negative reaction | | | |
| | Salmonella Typhimurium (14028) | | luxuriant | | colourless | | | positive reaction, black centred colonies | | | |
| Precautions: 1. For Laboratory | | ry Use. | | • | | • | | | | | |
| | | 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. | | | | | | | | | |
| Limitations: 1. Since the nutrition | | | tritional | I requirements of organisms vary, some strains may be grow or grow poorly on this medium. | | | | | | | |
| Use: It is recommended for | | ed for is | solation of Salmonella and Shigella species | | | | | | | | |
| | | ium- be | elow 30°C Prepared medium - Between 2 to 8°C. | | | | | | | | |
| Pa | cking : | • | | • | | | • | • | | | |
| | | Reconstitution | Quanti Prepar | ity on ation (5 | 00g) | pH (25°C) | Supplement | | Sterilization | | |
| B1210 | | 47.42 g/l | 10.54 | | | 7.5 ± 0.2 | | | DO AUTOCLAVE | NOT | |

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