

**TECHNICAL SHEET**

|  |                            |   |                                |           |            |                    |
|--|----------------------------|---|--------------------------------|-----------|------------|--------------------|
| <b>B1023</b>   | <b>ENDO AGAR WITH NaCl</b> |   |                                |           |            |                    |
| <b>Formula</b>   |                            |   |                                |           |            |                    |
| <b>Ingredients :</b>   |                            | <b>gms/lit.</b>   |                                |           |            |                    |
| Special peptone  | 8.00                       |   |                                |           |            |                    |
| Lactose  | 10.00                      |   |                                |           |            |                    |
| Sodium chloride  |                            | 3.00  |                                |           |            |                    |
| Dipotassium phosphate  | 2.00                       |   |                                |           |            |                    |
| Sodium sulphite  |                            | 2.50  |                                |           |            |                    |
| Basic fuchsin (pararosaniline)   | 0.20                       |   |                                |           |            |                    |
| Agar   |                            | 12.00   |                                |           |            |                    |
| Final pH (at 25°C) : 7.5 ± 0.2   |                            |   |                                |           |            |                    |
| <b>Directions :</b>  |                            |   |                                |           |            |                    |
| Suspend 37.7 gms. in 1000 ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If the solidified culture medium is somewhat too red, then to remove the colour, add few drops (Max.1 ml/lit) of a freshly prepared 10% sulphite solution and boil.   |                            |   |                                |           |            |                    |
| <b>Principle :</b>   |                            |   |                                |           |            |                    |
| Endo Agar was proposed by Endo as a selective medium for detection of pathogenic enteric bacilli. Endo Agar with NaCl is prescribed in the regulations for the execution of the German Meat Inspection Law. Sodium sulphite and basic fuchsin inhibits most of the gram- positive bacteria. Lactose fermenting E.coli and coliforms produce aldehyde and acid. The aldehyde liberates fuchsin from the fuchsin - sulphite complex and colonies of lactose fermenters appear dark red. Non-lactose fermenters show colourless colonies. |                            |   |                                |           |            |                    |
| <b>QC Tests - (I) Dehydrated Medium</b>  |                            |   |                                |           |            |                    |
| Colour :   |                            | Light purple  |                                |           |            |                    |
| Appearance :   |                            | Homogeneous Free Flowing powder   |                                |           |            |                    |
| <b>(II) Rehydrated medium</b>  |                            |   |                                |           |            |                    |
| pH (post autoclaving/heating) :  |                            | 7.5 ± 0.2   |                                |           |            |                    |
| Colour (post autoclaving/heating) :  |                            | Orangish pink   |                                |           |            |                    |
| Clarity (post autoclaving/heating) :   |                            | Clear to slightly opalescent  |                                |           |            |                    |
| <b>(III) Q.C. Test Microbiological</b>   |                            |   |                                |           |            |                    |
| Cultural characteristics observed after 24 hrs. at 35-37°C.  |                            |   |                                |           |            |                    |
| MICROORGANISM (ATCC )  |                            | GROWTH  | COLOUR OF COLONY               |           |            |                    |
| Enterobacteraerogenes (13048)  |                            | luxuriant   | Red                            |           |            |                    |
| Escherichia coli (25922)   |                            | luxuriant   | Red w/metallic sheen           |           |            |                    |
| Salmonella typhimurium (14028)   |                            | luxuriant   | Colourless                     |           |            |                    |
| Salmonella enteritidis (13076 )  |                            | luxuriant   | Colourless                     |           |            |                    |
| Shigella flexneri (12022)  |                            | luxuriant   | Colourless                     |           |            |                    |
| Enterococcus faecalis (29212)  |                            | fair  | Colourless to light pink       |           |            |                    |
| <b>Precautions :</b>   |                            | 1. For Laboratory Use.<br>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.          |                                |           |            |                    |
| <b>Limitations :</b>   |                            | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |                                |           |            |                    |
| <b>Use :</b>   |                            | For detection and isolation of pathogenic enteric bacilli.  |                                |           |            |                    |
| <b>Storage :</b>   |                            | Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C.  |                                |           |            |                    |
| <b>Packing :</b>   |                            | 500 gm bottle   |                                |           |            |                    |
| <b>Product profile:</b>  |                            | Reconstitution  | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization      |
| <b>B1023</b>   |                            | 37.7g/l   | 13.26L                         | 7.5 ± 0.2 | Nil        | 121°C / 15 minutes |

**Disclaimer:**

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