

**TECHNICAL SHEET**

|  |  |  |                                 |                                 |                                     |
|--|--|--|---------------------------------|---------------------------------|-------------------------------------|
| <b>B215</b>  | <b>KOSER CITRATE MEDIUM</b>                                    |  |                                 |                                 |                                     |
| <b>Formula</b>   |  |  |                                 |                                 |                                     |
| <b>Ingredients :</b>   |  | <b>Gms/lit.</b>  |                                 |                                 |                                     |
| Sodium ammonium phosphate  |  | 1.50   |                                 |                                 |                                     |
| Monopotassium phosphate  |  | 1.00   |                                 |                                 |                                     |
| Magnesium sulphate   |  | 0.20   |                                 |                                 |                                     |
| Sodium citrate   |  | 3.00   |                                 |                                 |                                     |
| Final pH (at 25°C) : 6.7 ± 0.2   |  |  |                                 |                                 |                                     |
| <b>Directions :</b>  |  |  |                                 |                                 |                                     |
| Suspend 5.7 grams in 1000 ml distilled water. Dispense into tubes and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.  |  |  |                                 |                                 |                                     |
| <b>Principle :</b>   |  |  |                                 |                                 |                                     |
| Koser Citrate Medium is prepared with chemically pure salts and tested to determine that no sources of carbon (other than sodium citrate) or nitrogen (other than ammonium salts) are present. Bacteria that are able to use citrate as their carbon source will grow in the medium and cause turbidity. |  |  |                                 |                                 |                                     |
| <b>QC Tests – (I)Dehydrated Medium</b>   |  |  |                                 |                                 |                                     |
|  | Colour :   |  | White to cream                  |                                 |                                     |
|  | Appearance :   |  | Homogeneous Free Flowing powder |                                 |                                     |
| <b>(II)Rehydrated medium</b>   |  |  |                                 |                                 |                                     |
|  | pH (post autoclaving/heating) :                                |  | 6.7 ± 0.2                       |                                 |                                     |
|  | Colour (post autoclaving/heating) :                            |  | Colourless                      |                                 |                                     |
|  | Clarity (post autoclaving/heating) :                           |  | Clear                           |                                 |                                     |
| <b>(III)Q.C. Test Microbiological</b>  |  |  |                                 |                                 |                                     |
|  | Cultural characteristics observed after 18- 24 hrs at 35-37°C. |  |                                 |                                 |                                     |
|  | MICROORGANISM (ATCC )  |  | GROWTH                          | CITRATE UTILISATION             |                                     |
|  | Enterobacter aerogenes (13048)                                 |  | Luxuriant                       | Positive reaction,turbidity     |                                     |
|  | Enterobacter cloacae (23355)                                   |  | Luxuriant                       | Positive reaction,turbidity     |                                     |
|  | Escherichia coli (25922)                                       |  | None- poor                      | Negative reaction, no turbidity |                                     |
|  | Klebsiella pneumoniae (13883)                                  |  | Luxuriant                       | Positive reaction,turbidity     |                                     |
| <b>Precautions :</b>   |  | 1. For Laboratory Use.<br>2. Follow proper, established laboratory procedures in handling and disposing of infectious materials.<br>3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. |                                 |                                 |                                     |
| <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 differentiation of Escherichia coli and Enterobacter aerogenes on the basis of citrate utilization.  |                                 |                                 |                                     |
| <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>B215</b>  | 5.7g/l   |  | 87.71L                          | 6.7 ± 0.2                       | NIL 121 <sup>0</sup> 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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