

## CM 21553 - SACCHAROSE BROTH

### INTENDED USE

For identification of saccharose fermenting microorganisms.

### PRODUCT SUMMARY AND EXPLANATION

Saccharose Broth is used in studying fermentation reaction in colon bacteria.

### COMPOSITION

| Ingredients                    | Gms / Ltr |
|--------------------------------|-----------|
| Casein enzymic hydrolysate     | 17.000    |
| Papaic digest of soyabean meal | 3.000     |
| Sodium chloride                | 5.000     |
| Dipotassium hydrogen phosphate | 2.500     |
| Saccharose                     | 5.000     |
| Bromo thymol blue              | 0.025     |

### PRINCIPLE

Casein enzymic hydrolysate and papaic digest of soyabean meal provide essential nutrients for bacterial metabolism. Saccharose provides the fermentable carbohydrate source for the bacteria. Bromothymol blue is a pH indicator. Sodium chloride maintains osmotic equilibrium.

### INSTRUCTION FOR USE

Dissolve 32.5 grams in 1000 ml distilled water.

Heat if necessary to dissolve the medium completely.

Dispense and sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes.

### QUALITY CONTROL SPECIFICATIONS

Appearance of Powder : Cream to Yellow coloured homogeneous free flowing powder.

Appearance of prepared medium : Bluish green coloured clear to very slightly opalescent solution.

pH (at 25°C) : 7.0

### INTERPRETATION

Cultural characteristics observed after an incubation.

| Microorganism        | ATCC | Inoculum (CFU/ml) | Growth    | Acid                              | Gas               | Incubation Temperature | Incubation Period |
|----------------------|------|-------------------|-----------|-----------------------------------|-------------------|------------------------|-------------------|
| Citrobacter freundii | 8090 | 50-100            | Luxuriant | Positive reaction / Yellow colour | Positive reaction | 35-37°C                | 18-24 Hours       |



|                        |       |        |           |                                     |                   |         |             |
|------------------------|-------|--------|-----------|-------------------------------------|-------------------|---------|-------------|
| Escherichia coli       | 25922 | 50-100 | Luxuriant | Negative reaction, no colour change | Negative reaction | 35-37°C | 18-24 Hours |
| Klebsiella pneumoniae  | 13883 | 50-100 | Luxuriant | Positive reaction /Yellow colour    | Positive reaction | 35-37°C | 18-24 Hours |
| Proteus vulgaris       | 13315 | 50-100 | Luxuriant | Positive reaction /Yellow colour    | Positive reaction | 35-37°C | 18-24 Hours |
| Salmonella Typhimurium | 14028 | 50-100 | Luxuriant | Negative reaction, no colour change | Negative reaction | 35-37°C | 18-24 Hours |

#### PACKAGING:

In pack size of 500 gm bottles.

#### STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

#### DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

#### REFERENCES

1.OskarKlotz,Temporary Alteration of character of an organism belonging to the colon group. Journal of Medical Research, 1994,6P-475



NOTE: Please consult the Material Safety Data Sheet for information regarding hazards and safe handling Practices.

\*For LabUse Only  
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