

Technical Information

Saccharose Broth

Product Code: DM 1844

Application: - Saccharose Broth is recommended for identification of saccharose fermenting microorganisms.

Composition**

Ingredients	Gms / Litre
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

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

Saccharose Broth is recommended in studying fermentation reaction in colon bacteria (1). Casein enzymic hydrolysate and papaic digest of soyabean meal supply essential nutrients for bacterial metabolism. Saccharose provides the fermentable carbohydrate source for the bacteria. Bromothymol blue acts as pH indicator. Sodium chloride helps to maintain osmotic equilibrium.

Methodology

Suspend 32.5 grams of dehydrated powder media in 1000 ml. distilled water. Mix thoroughly & heat if necessary to dissolved the medium completely. Dispense and sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Appearance

Cream to Yellow coloured homogeneous free flowing powder

Colour and Clarity

Bluish green coloured clear to very slightly opalescent solution.

Cultural Response

DM 1842: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.

Organism	Inoculum (CFU)	Growth	Acid	Gas
<i>Citrobacter freundii</i> ATCC 8090	50-100	luxuriant	positive reaction, yellow colour	positive reaction
<i>Escherichia coli</i> ATCC 25922	50-100	luxuriant	negative reaction, no colour change	negative reaction
<i>Klebsiella pneumoniae</i> ATCC 13883	50-100	luxuriant	positive reaction, yellow colour	positive reaction
<i>Proteus vulgaris</i> ATCC 13315	50-100	luxuriant	positive reaction, yellow colour	positive reaction
<i>Salmonella Typhimurium</i> ATCC 14028	50-100	luxuriant	negative reaction, no colour change	negative reaction



Dehydrated Culture Media
Bases / Media Supplements

Storage and Shelf Life

Dried Media: Store below 30°C in tightly closed container and the prepared medium at 2 - 8°C. Use before expiry date on the label.

Prepared Media: 2-8° in sealable plastic bags for 2-5 days.

Further Reading

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

Disclaimer :

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