

Technical Information

Inactivator Broth (CASOB Medium)

Product Code: DM 2706

Application: - Inactivator Broth is recommended for neutralizing and determining bactericidal activity of quaternary ammonium compounds.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	17.000
Papaic digest of soyabean meal	3.000
Sodium chloride	5.000
Dipotassium phosphate	2.500
Dextrose	2.500
Soya lecithin	3.000
Histidine HCl	1.000
Cysteine HCl	1.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Principle & Interpretation

In activator Broth is used for neutralizing and determining bactericidal activity of quaternary ammonium compounds in products of sanitary importance, water miscible cosmetics, products containing antimicrobials or preservatives.

It contains casein enzymic hydrolysate and papaic digest of soyabean meal which provides necessary nitrogenous sources and other nutrients required for microbial growth. Soya Lecithin acts as neutralizing component (1). Histidine and Cysteine acts as a reducing agent.

Methodology

Suspend 35.0 grams of dehydrated powder media in 1000 ml distilled water. Mix thoroughly & heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes.

Quality Control

Appearance

Cream to yellow homogeneous free flowing powder

Colour and Clarity

Light yellow slightly opalescent solution without any precipitate.

Reaction

Reaction of 3.5% w/v aqueous solution at 25°C. pH : 7.3±0.2

pH Range

7.10-7.50

Cultural Response

DM 2706: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours.



Dehydrated Culture Media
Bases / Media Supplements

Organism	Inoculum (CFU)	Growth
Cultural Response		
<i>Escherichia coli</i> ATCC 25922	50-100	good-luxuriant
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant
<i>Staphylococcus aureus</i> ATCC 25923	50-100	good-luxuriant
<i>Bacillus subtilis</i> ATCC 6633	50-100	good-luxuriant
<i>Salmonella Typhi</i> ATCC 6539	50-100	good-luxuriant

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. British Pharmacopoeia, 2007, The Stationery Office British Pharmacopoeia.

Disclaimer :

- User must ensure suitability of the product(s) in their application prior to use.
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