BIOCHEM Chemopharma

PRODUCT :

DM2520500 Esculin Agar

Esculin Agar is a differential medium for demonstrating esculin hydrolysis by various microorganism

COMPOSITION

Ingredients	Gms / Litre	Ingredients	Gms / Litre
Casein enzymic hydrolysate	13.000	Esculin	1.000
Sodium chloride	5.000	Ferric citrate	0.500
Yeast extract	5.000	Agar	15.000
Beef heart infusion (solids)	2.000	Final pH (at 25°C)	7.3 ± 0.2

**Formula adjusted, standardized to suit performance parameters

OPERATION

Suspend 41.50 grams in 1000 ml distilled water. Heat to boiling to dissolve the medium completely. Distribute into screw-capped tubes in 3 ml volumes or as desired. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool tubes in a slanted position.

QUALITY CONTROL

Description: Cream to yellow homogeneous free flowing powder

Colour and Clarity of prepared medium: 4.15% w/v aqueous solution is amber coloured, clear to slightly opalescent gel forms in tubes as slants

Reaction: Reation of 4.15% w/v aqueous solution at 25°C. pH : 7.3 ± 0.2

Prepare the medium per label directions. Inoculate and incubate at 35 ± 2°C for 18-24 hours.

Microorganisms	Growth	Esculin Hydrolysis
Escherichia coli (ATCC 25922)	*good*	–
Enterococcus faecalis (ATCC 29212)	*luxuriant*	+
Streptococcus pyogenes (ATCC 19615)	*luxuriant*	–

Key: + = +ve reaction blackening of medium
– = -ve no colour change

STORAGE AND SHELF LIFE

Store below 30°C and the prepared medium at 2-8°C. Use before expiry date on label.

TECHNICAL REFERENCES