
Product Specification

Product Name: Modified MacConkey Sorbitol Agar (CT-SMAC)

Product Code: SG7221

PRODUCT DESCRIPTION:

Modified MacConkey Sorbitol Agar (CT-SMAC) is used for the selective and differential isolation of sorbitol-negative Escherichia coli, particularly O157:H7.

Use:

Stir to suspend 51.5 g of dehydrated medium in 1L distilled H₂O. Mix well with heat with frequent agitation. Boil for one minute. Autoclave for 15 minutes at 121°C to sterilize. Allow to cool (40 – 45°C). Add one vial of Cefixime (SG7223), one vial of Modified Sorbitol MacConkey Agar Additive (SG7222) and one vial of Potassium Tellurite Solution (SG7224) to every 100ml, 200ml and 500ml of the culture medium respectively. For laboratory use only.

Components:

Peptone – 20.0g/L

Sorbitol – 10.0g/L

Bile Salts No. 3 – 1.5g/L

Sodium chloride – 5.0g/L

Neutral Red – 0.03g/L

Crystal Violet – 0.001g/L

Agar – 15.0g/L

Item	Description
<u>Physical and Chemical Tests</u>	
Appearance (dry):	Light Pink Powder
pH (@25°C):	7.2 ± 0.2
<u>Microbiological Tests</u>	
Escherichia coli O157:H7 (CMCC(B)44939)	<u>Quality Control Results</u> PR ≥ 0.5, colorless colonies with a darker grayish-brown center
Escherichia coli (ATCC 25922)	Pink colonies with bile salt deposits around them
Staphylococcus aureus (ATCC 6538)	G ≤ 1

* The microbiological test results were obtained from type cultures after incubation at a temperature of 36°C and observed after 24 hours.

Storage: Store in a dry and dark place at room temperature. Tighten the cap immediately after use.