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Product Information

CHAPMAN STONE AGAR

Product Number **C 9595**

Product Description

Chapman Stone Agar is recommended for the selective isolation of *Staphylococci* causing food poisoning. Casein enzymic hydrolysate and yeast extract provide nitrogen, carbon, sulfur and vitamin B. Sodium chloride acts as a selective agent. Mannitol is the fermentable carbohydrate and its fermentation can be detected by adding a few drops of bromo cresol purple to the agar plate, resulting in the production of a yellow color. Gelatin hydrolysis is observed as clear zones around the colonies.

Components

Item	g/L
Casein Enzymic Hydrolysate	10.00
Yeast Extract	2.50
Gelatin	30.00
D-Mannitol	10.00
Sodium Chloride	55.00
Ammonium Sulfate	75.00
Dipotassium Phosphate	5.00
Agar	15.00

Final pH (at 25 °C) 7.0 ± 0.2

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 20.25 grams of Chapman Stone Agar in 100 mls of distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs. pressure (121 °C) for 15 minutes.

Storage

Store the dehydrated medium at 24 °C and prepared medium at 2-8 °C.

Product Profile

Appearance	Light yellow colored, coarse, free flowing powder.
Gelling	Firm.
Color and Clarity	Light amber colored, opalescent gel forms in petri plates.
Cultural Response	Cultural characteristics are observed after 18-48 hours at 30 °C.

Organism (ATCC) ³	Growth	Gelatinase* Production
<i>Staphylococcus aureus</i> (25923)	luxuriant	+
<i>Staphylococcus epidermidis</i> (12228)	luxuriant	+
<i>Escherichia coli</i> (25922)	inhibited	-

	Mannitol Fermentation
<i>Staphylococcus aureus</i>	+
<i>Staphylococcus epidermidis</i>	-
<i>Escherichia coli</i>	-

* Gelatinase + is indicated by clearing or halo around colony

References

1. Chapman (1946), J. Bacteriol. 51: 409
2. Chapman (1948), Food Res., 13: 100
3. American Type Culture Collection, Manassas Va., U.S.A.

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