



CHROME *E. coli* AGAR

Product Number **C4221**

Product Description

Chrome *E. coli* Agar is recommended for the detection and enumeration of *Escherichia coli* in foods without further confirmation on a membrane filter or by the indole reagent. Chrome *E. coli* Agar is based on tryptone bile agar to detect *E. coli* in foods. Most of the *Escherichia coli* strains can be differentiated from other coliforms by the presence of the enzyme glucuronidase which is highly specific for *Escherichia coli*.

The chromogenic agent X-glucuronide used in this medium helps to detect glucuronidase activity. *Escherichia coli* cells absorb X-glucuronide and the intracellular glucuronidase splits the bond between the chromophore and the glucuronide. The released chromophore results in colored colonies.

Components

Item	g/L
Casein Enzymic Hydrolysate	20.00
Bile Salts Mixture	1.50
X-Glucuronide	0.075
Agar	15.00

Final pH (at 25°C) 7.2 ± 0.2

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

Preparation Instructions

Suspend 36.58 grams in 1000 mls distilled water. Sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes. Cool to 50°C and pour into sterile petri plates.

Note: Wear a mask while handling the dehydrated medium and avoid contact with the eyes.

Product Information

Procedure

1. Dry the surface of the plated medium. Dilute the sample 1:5 or 1:10 with 0.1% P6226 Peptone Water and homogenize in a blender.
2. Spread 0.5 ml to 1.0 ml of the homogenate over the agar surface with a sterile glass spreader.
3. Incubate the plates at 30°C for 4 hours and then at 44°C for 18 hours.

Storage

Store the dehydrated medium at 2-8°C.

Product Profile

Appearance	Beige colored, homogeneous, free flowing powder.
Color and Clarity	Light yellow colored, clear to slightly opalescent gel forms in petri plates.
Cultural Response	Cultural characteristics observed after 18-24 hours at 44°C.

Organisms

Organisms	Growth	Color
<i>Escherichia coli</i>	luxuriant	blue
<i>Klebsiella pneumoniae</i>	luxuriant	colorless
<i>Salmonella enteritidis</i>	luxuriant	colorless

References

1. Anderson, J.M., et al., (1975). J. Appl. Bact., 39, 111.
2. Hansen, W., et al., (1984). J. Clin. Microbiol. 20,1177.

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