

Product Data Sheet

ECD AGAR

Product No. GB-DCM-00185-1A

INTENDED USE

For selective isolation of coliforms, especially E.coli in water & food by membrane filter technique.

PRODUCT SUMMARY

ECD Agar is used for detection of coliforms, especially, Escherichia coli in water, food and other samples using membrane filter technique. The water sample is filtered through filter membranes, which are then placed on ECD Agar and incubated overnight. Lay a drop of Kovac's Indole Reagent on the colonies. Indole positive colonies form a red zone around the colony. Indole positive colonies are enumerated as E.coli.

Product Specifications

Ingredients	Gms / Ltr
Tryptone	20.000
Yeast extract	5.000
Bile salts	1.500
Sodium chloride	5.000
Disodium hydrogen phosphate	5.000
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Agar	15.000

INSTRUCTION FOR USE

- Dissolve 53.0 grams in 1000 ml purified / distilled water.
- Heat to boiling to dissolve the medium completely.
- Sterilize by autoclaving at 15 psi pressure (121°C) for 15 minutes. Cool to 45-50° C.
- Mix well and pour into sterile Petri plates.

PRINCIPLE

The medium consists of tryptone and yeast extract which provide essential nutrients especially nitrogenous sources for the coliforms. Bile salts selectively inhibit gram-positive organisms. Sodium chloride maintains the osmotic balance while phosphate salts buffer the medium.



QUALITY CONTROL SPECIFICATIONS

Appearance of Powder: Cream to yellow homogeneous free flowing powder.
 Appearance of prepared medium: Yellow coloured, clear to slightly opalescent gel forms in Petri plates
 pH (at 25°C) : 7.0±0.2

Microorganism	ATCC	Inoculum (CFU/ml)	Growth	Recovery	Incubation Temperature	Incubation Period
Escherichia coli	25922	50-100	Good-Luxuriant	≥50%	35-37°C	18-24 Hours
Staphylococcus aureus	25923	≥10 ³	Good-Luxuriant	≥50%	35-37°C	18-24 Hours
Salmonella Typhi	6539	50-100	Good-Luxuriant	≥50%	35-37°C	18-24 Hours
Enterobacter aerogenes	13048	50-100	Inhibited	0%	18-24 Hours	18-24 Hours

STORAGE

Dehydrated powder, hygroscopic in nature, store in a dry place, in tightly-sealed containers between 25-30°C and protect from direct sunlight. Under optimal conditions, the medium has a shelf life of 4 years. When the container is opened for the first time, note the time and date on the label space provided on the container. After the desired amount of medium has been taken out replace the cap tightly to protect from hydration.

Product Deterioration: Do not use if they show evidence of microbial contamination, discoloration, drying or any other signs of deterioration.

DISPOSAL

After use, prepared plates, specimen/sample containers and other contaminated materials must be sterilized before discarding.

This product is for research use only.

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