



## Casein Hydrolysate Yeast Extract Salts

M1238

Casein Hydrolysate Yeast Extract Salts Broth is recommended for isolation of *Escherichia coli* in foods.

### Composition\*\*

Ingredients	Gms / Litre
Casein acid hydrolysate	20.000
Yeast extract	6.000
Sodium chloride	2.500
Dipotassium phosphate	8.710
Final pH ( at 25°C)	8.5±0.2

\*\*Formula adjusted, standardized to suit performance parameters

### Directions

Suspend 37.21 grams in 1000 ml distilled water. Heat if necessary to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. If desired add 1ml of filter sterilized Trace Salts Solution (containing 5.0% magnesium sulphate, 0.5% manganese chloride, 0.5% ferric chloride dissolved with 0.1N Sulphuric acid).

### Principle And Interpretation

Casein Hydrolysate Yeast Extract Salts Broth Base (CAYES) is recommended by APHA (1) for cultivation of *Escherichia coli* from food samples .

Casein acid hydrolysate and yeast extract provide necessary nitrogenous source, for growth of

*E.coli* . Salts in the medium that is sodium chloride and dipotassium phosphate maintains osmotic balance of the cell. Dipotassium phosphate also helps in buffering of the medium.

### Quality Control

#### Appearance

Cream to yellow homogeneous free flowing powder

#### Colour and Clarity of prepared medium

Amber coloured, clear solution without any precipitate

#### Reaction

Reaction of 3.72% w/v aqueous solution at 25°C. pH : 8.5±0.2

#### pH

8.30-8.70

#### Cultural Response

M1238: Cultural characteristics after an incubation at 35-37°C for 18-24 hours

Organism	Inoculum (CFU)	Growth
Cultural Response <i>Escherichia coli</i> ATCC 25922	50-100	luxuriant

### Storage and Shelf Life

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

### Reference

1. Vanderzant C. and Splittstoesser D. F., (Eds.), 1992, Compendium of Methods for the Microbiological Examination of Foods, 3rd Ed., APHA, Washington, D.C.

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