



Casein Hydrolysate Agar (1.5% Agar)

M793

Casein Hydrolysate Agar (1.5% Agar) is used as a general purpose culture medium.

Composition**

Ingredients	Gms / Litre
Casein enzymic hydrolysate	5.000
Beef infusion from	150.000
Peptic digest of animal tissue	5.000
Yeast autolysate	1.500
Sodium phosphate	2.500
Sodium chloride	5.000
Agar	15.000
Final pH (at 25°C)	7.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 35.5 grams in 1000 ml distilled water containing 22 ml glycerol. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Mix well and pour in sterile Petri plates.

Principle And Interpretation

Casein Hydrolysate Agar w/1.5% is the modification of medium recommended by APHA (1) and is used as a general purpose culture medium.

It has casein hydrolysate, beef infusion, and peptic digest of meat which serves as a rich source of nitrogen and carbon. Yeast autolysate provides necessary growth factors and vitamin supplement required for metabolism of wide number of bacteria. Sodium phosphate helps buffering of media whereas sodium chloride balances the osmotic equilibrium.

Quality Control

Appearance

Yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium

Light to medium amber coloured, clear to slightly opalescent gel forms in Petri plates.

Reaction

Reaction of 3.55% w/v aqueous solution at 25°C. pH : 7.8±0.2

pH

7.60-8.00

Cultural Response

M793: Cultural characteristics observed after an incubation at 35-37°C for 18-24 hours .

Organism

Growth

Enterococcus faecalis ATCC 29212 luxuriant

Staphylococcus aureus ATCC 25923 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 the label.

Reference

1. Vanderzant C and Splittstoerser D (Eds) 1992. Compendium of Methods for the Microbiological Examination of Foods, 3rd ed, APHA, Washington, DC.

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