



Casein Hydrolysate Agar w/2.5% Agar

M794

Composition**

EXb` ` XaWWe TeZXFVT_XVhgi Tgba bYVibrio cholerae YcecbWVgba bYV b_XEi TWaX

Composition**

Ingredients	Gms / Litre
Gel cgaX	5.000
; @`aYf\ba`5`Yb`	150.000
CXcgaX	5.000
LXifgThb_l fTgX	1.500
Sodium phosphate	2.500
Sodium chloride	5.000
Agar	25.000
Final pH (at 25°C)	7.8±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 45.5 grams in 1000 ml cheXW` 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. 6bb`_g` (Z`#6!@`k`j` X`_TaWcbe`ag` fg`_XCXg`c`Tg`!

Principle And Interpretation

Casein Hydrolysate Agar w/2.5% is the modification of medium recommended by APHA (1) and is a highly selective medium, recommended particularly for the production of cholera vaccine by *Vibrio* species.

It has Gel cgaX ; @`aYf\ba`5`Yb` , and CXcgaX 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

Gl cXbYfcX` Xa`

Pure isolates for vaccine production; Clinical samples - Stool samples.

Specimen Collection and Handling

For clinical samples follow appropriate techniques for handling specimens as per established guidelines (4,5). For pure isolate, follow appropriate techniques for sample collection and processing as per guidelines (1,2,8). After use, contaminated materials must be sterilized by autoclaving before discarding.

J Tea`aZ`TaWcWihg`baf`-

<a`I` gb`WZabfgVHfXba`!`EXIVg`X`TUX`UXbeXbcXa`aZ`g`XVbag`Xa`J` XTe`cebg`Wgi`XZ`bi`X`cebg`Wgi`XVbg`aZ`X`X` cebg`Wgba`"YWX`cebg`Wgba`!`9b`_bj` `ZbbW` \bUb`bZVT`_IU`ceIVg`W`j` [\X`[`TaWaZ`fcX` \Xaf`TaWWh`ghe`X`FgTaWcW` ceWihg`baf`If`cX`Xg`Uf`XWZhWX`aX`f`[bh`WUX`b`_bj` XWj` [\X`[`TaWaZ`V`ai`VT`fcX` \Xaf`FIYg`ZhWX`aX` TI`UX` eXXeXWa`aW`MiL`FIYg`Wg`f`Xg`!

?` \`gTg`baf`-

1. Further biochemical and serological tests must be carried out for further identification.

Quality Control

Appearance

Yellow coloured homogeneous free flowing powder

Gelling

Firm, comparable with 2.5% Agar gel.

Colour and Clarity of prepared medium

Lightly yellow coloured clear to slightly opalescent gel forms in petri plates

Reaction

Reaction of 4.5% w/v aqueous at 25°C. pH : 7.8±0.2

pH

7.60-8.00

Cultural Response

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

Organism

Vibrio cholerae ATCC
15748

Growth

luxuriant

Reference

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

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