



Milk Agar with Cetrime (Twin Pack)

M1273S

Milk Agar with Cetrime is recommended for detection and enumeration of *Pseudomonas aeruginosa* in water. It is recommended by BIS.

Composition**

Ingredients	Gms / Litre
Part A	-
Skim milk powder	100.000
Part B	-
Peptic digest of animal tissue	2.500
Sodium chloride	1.250
Yeast extract	0.750
Cetrime	0.300
Agar	15.000
Final pH (at 25°C)	7.3±0.2

**Formula adjusted, standardized to suit performance parameters

Directions

Suspend 19.8 grams of Part B in 250 ml of distilled water. Heat to boiling to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 20 minutes. Suspend 100 grams of Part A in 750 ml of distilled water. Sterilize by autoclaving at 15 lbs pressure (121°C) for 5 minutes. After autoclaving cool both the parts to 50°C. Aseptically add Part A solution to Part B solution, mix well and pour into sterile Petri plates.

Principle And Interpretation

Milk Agar with Cetrime is formulated as recommended by BIS (1) for detection and enumeration of *Pseudomonas aeruginosa* from water. Strains of *Pseudomonas aeruginosa* are identified by their pigment i.e. pyocyanin production. *Pseudomonas aeruginosa* is the only species of *Pseudomonas* or gram negative rod known to excrete pyocyanin. *Pseudomonas aeruginosa* hydrolyzes casein and produces a yellow to green diffusible pigment. Subculture a loopful of culture medium from Asparagine Proline Broth (M1192) tubes showing either growth or fluorescence on Milk Agar plates and examine for pigment production. Peptic digest of animal tissue, yeast extract and skim milk provide nitrogen, sulphur, vitamins and other growth nutrients. Sodium chloride maintains osmotic equilibrium. Cetrime (Cetyl trimethylammonium bromide) is a quaternary ammonium compound which inhibits a wide variety of microorganisms including *Pseudomonas* species other than *Pseudomonas aeruginosa*.

Quality Control

Appearance

Part A : White to cream homogeneous free flowing powder

Part B : Cream to yellow homogeneous free flowing powder

Gelling

Firm, comparable with 1.5% Agar gel

Colour and Clarity of Prepared Medium

Cream coloured opalescent gel forms in Petri plates.

Reaction

Reaction of 1.98% w/v aqueous solution of Part B at 25°C. pH : 7.3±0.2

pH

7.10-7.50

Cultural Response

M1273S: Cultural characteristics observed after an incubation at 35-37°C for 24-48 hours.

Organism	Inoculum (CFU)	Growth	Recovery	Pigment
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Cultural Response

<i>Escherichia coli</i> ATCC 25922	$\geq 10^3$	Inhibited	0%	
<i>Pseudomonas aeruginosa</i> ATCC 27853	50-100	good-luxuriant	$\geq 50\%$	blue-green
<i>Stenotrophomonas maltophilia</i> ATCC 13637	$\geq 10^3$	inhibited	0%	

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. International Organization for Standardization (ISO), Draft ISO/DIS 83 60-1:1988

Revision : 1 / 2011

**Disclaimer :**

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