



KOSER CITRATE MEDIUM

Product Number **K2385**

Product Description

Koser Citrate Medium is used to differentiate *Escherichia coli* and *Enterobacter aerogenes* on the basis of citrate utilization. It is recommended by the American Public Health Association (APHA) as a standard test medium in the identification of organisms found in the water. Citric acid or its sodium salt is utilized as a sole source of carbon. Ammonium salt is utilized as a nitrogen source by *Enterobacter aerogenes*, while *Escherichia coli* fail to grow.

Components

Item	g/L
Sodium Ammonium Phosphate	1.50
Monopotassium Phosphate	1.00
Magnesium Sulphate	0.20
Sodium Citrate	3.00

Final pH (at 25°C) 6.7 ± 0.2

Precautions and Disclaimer

For laboratory use only. Not for drug, household or other uses.

Preparation Instructions

Suspend 5.7 grams of Koser Citrate Medium in 1000 mls of distilled water. Dispense into tubes and sterilize by autoclaving at 15 lbs. pressure (121°C) for 15 minutes.

Product Information

Storage

Store the dehydrated medium at 24°C and the prepared medium at 2-8°C.

Product Profile

Appearance	White colored, homogeneous, free flowing powder.
Color and Clarity	Colorless, clear solution without any precipitate.
Cultural Response	Cultural characteristics observed after 18-24 hours at 35°C.
Organisms	<i>Enterobacter aerogenes</i> <i>Escherichia coli</i> <i>Enterobacter cloacae</i>
	Growth luxuriant poor luxuriant

References:

1. Koser, S. A., (1923). J. Bact. 8, 493..
2. Standard Methods for Examination of Water and Wastewater, (1980). 19th Edition. APHA, Inc. Washington, D.C.
3. Compendium of Methods for the Microbiological Examination of Foods, (1992). Vanderzant, C., et al., eds. 3rd Edition. APHA, Inc. Washington, D.C.

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