



## 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)  $6.7 \pm 0.2$

### 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	Growth
<i>Enterobacter aerogenes</i>	luxuriant
<i>Escherichia coli</i>	poor
<i>Enterobacter cloacae</i>	luxuriant

### References:

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

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