OXALIS Diagnostics Pvt. Ltd.

Technical Data

Simmons Citrate Agar. 100 g / 500 g

Used For the differentiation of Gram-negative bacteria on thebasis of citrate utilization.

Product Presentation:

Cat No.	Product description	Pack Size
11190030100	Simmons Citrate Agar	100 Gram
11190030500	Simmons Citrate Agar	500 Gram

Principle

Ammonium dihydrogen phosphate and sodium citrate serve as the sole nitrogen and carbon source respectively while bromothymol blue is the pH indicator. Organisms able to utilize the above compounds as sole source of nitrogen and carbon, grow on this medium and produce an alkaline reaction as indicated by the change in colour of bromothymol blue indicator from green (neutral) to blue (alkaline).

Composition

Ingredients	Grams / Litre
Magnesium Sulphate	0.20
Ammonium Dihydrogen Phosphate	1.00
Dipotassium Phosphate	1.00
Sodium Citrate	2.00
Sodium Chloride	5.00
Bromothymol Blue	0.080
Agar	15.00

Final pH (at 25°C) 6.8±0.2

*Formula adjusted, standardized to suit performance parameters

Type of specimen

Food samples

Specimen Collection and Handling

Ensure that all samples are properly labeled. Follow appropriate techniques for handling samples as per established guidelines. Some samples may require special handling, such as immediate refrigeration or protection from light, follow the standard procedure. The samples must be stored and tested within the permissible time duration. After use, contaminated materials must be sterilized by autoclaving before discarding.

Directions

- ✓ Suspend 24.28 g of powder in 1000 mL distilled water.
- ✓ Mix thoroughly.
- ✓ Boil to dissolve the medium completely.
- ✓ Sterilize by autoclaving 121°C for 15 minutes or as per validated cycle.

FACTORY & OFFICE
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Storage and Stability

- ✓ Store Dehydrated culture media in cool, dry place at 10°C-30°C away from direct light.
- ✓ Store prepared medium at 2°C-8°C. Avoid freezing and overheating. Use before expiry date on the label. Once opened keep powdered medium closed to avoid hydration.

Quality Control

Dehydrated Appearance: Light yellow coloured homogeneous, free flowing powder
Prepared Appearance: Forest green coloured, slightly opalescent gel forms in petridishes

Growth Promotion Test: Growth promotion is carried after an incubation at 35°C-37°C for 18 to 48 hours.

Cultural Response :

Organism	Type Culture	Growth	Colour of medium around colonies	Citrate Utilization
Escherichia coli	ATCC 25922	Poor	No colour change due to growth inhibition	Negative
Salmonella Typhimurium	ATCC 14028	Good	Blue coloured formed	Positive

Interpretation of Results

- ✓ Examination of plates or slants for growth after completion of incubation period.

Warranty

- ✓ This product is designed to perform as described on the label and package insert. The manufacturer disclaims any implied warranty of use and sale for any other purpose.

Disposal

Disposal of infectious material and material that comes in to contact with clinical sample must be decontaminated and dispose of by autoclaving or incineration or established laboratory procedures.
User must be ensure safe disposal of used or unusable preperation of the products.

Reference

1. US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.
2. American Public Health Association, Standard Methods for the Examination of Dairy Products, 1978,

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