OXALIS Diagnostics Pvt. Ltd.

Technical Data

Simmons Citrate Agar Slant (7mL)

Used for the differentiation of Gram-Negative bacteria on the basis of citrate utilization.

Product Presentation:

Cat No.	Product description	Pack Size
23010020020	Simmons Citrate Agar Slant.	20 Slants

Principle

Simmons Citrate Agar is recommended by APHA and is used for the differentiation of *Enterobacteriaceae* and members of the *aerogenes* group on the basis of citrate utilization. Kosher developed a liquid medium containing ammonium salt as the only source of nitrogen, and citrate as the only source of carbon to differentiate between *Escherichia coli* and *Klebsiella aerogenes* based on the IMViC reactions. Simmons later on, modified this medium with the addition of agar and bromothymol blue. Organisms capable of utilizing citrate grow well on this medium. Simmons Citrate Agar is included in the Bacteriological Analytical Manual for food and cosmetics analysis.

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).

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, followthe 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

- ✓ Bring the Simmons Citrate Agar slant to room temperature.
- ✓ Use Simmons Citrate Agar slant as per requirements.

Storage and Stability

- ✓ Store Ready to Use Simmons Citrate Agar Slant 15°C-25°C away from direct light.
- ✓ Avoid freezing and overheating.
- ✓ Use before expiry date on the label.

Quality Control

Appearance: Forest green coloured, smooth slant in 20 mL screw cap culture vial.
Growth Promotion Test: Growth is observed after an incubation at 30°C -35°C for 18-24 hours.

FACTORY & OFFICE
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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 slant 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 anddispose of by autoclaving or incineration or established laboratory procedures.
- ✓ User must be ensuring safe disposal of used or unusable preparation of the products.

Reference

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

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