OXALIS Diagnostics Pvt. Ltd.

Technical Data

Urea Agar Slant (7mL)

Used for the detection of the urease positive microbes from clinical and environmental samples.

Product Presentation:

Cat No.	Product description	Pack Size
23010030020	Urea Agar Slant.	20 Slants

Principle

Christensen devised Urea Agar Base for use as a solid medium for the differentiation of Enteric Bacilli. It differentiates between rapid urease-positive organisms (*Proteus* species, *Morganella morganii* subspecies *morganii*, *Providencia rettgeri* and some *Providencia stuartii*) and other urease-positive organisms: *Citrobacter*, *Enterobacter* and *Klebsiella* and bacteria other than *Enterobacteriaceae*, i.e., some *Bordetella* and *Brucella* species. Urea Agar Base is included in the Bacteriological Analytical Manual for food and cosmetics testing, in IP and is recommended by APHA for the examination of foods. Rustigian and Stuart had originally formulated Urea Broth to differentiate *Proteus* species from other Gram-negative enteric bacilli capable of utilizing urea; the latter were unable to do so because of limited nutrients and the high buffering capacity of the Urea Broth. To provide a medium with greater use Christensen devised Urea Agar Base with the addition of peptone, dextrose and reduced content of buffer to promote rapid growth of many of the *Enterobacteriaceae* and permit a reduction in incubation time.

Peptone is the source of essential nutrients. Dextrose is the energy source. Sodium chloride maintains the osmotic equilibrium of the medium whereas phosphates serve to buffer the medium. Urea is hydrolyzed to liberate ammonia. Phenol red indicator detects the alkalinity generated by visible colour change from orange to pink.

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 Urea Agar slant to room temperature.
- ✓ Use Urea Agar slant as per requirements.

Storage and Stability

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

Quality Control

Appearance: Yellow orange coloured, opaque, 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 :

Organisms	Type Culture	Growth	Urease Test
Escheriachia Coli	ATCC 8739	Good	Negative Reaction
Klebsiella aerogenes	ATCC 13048	Good	Positive Reaction

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

- ✓ Christensen WB; 1946, J. Bact; Vol. 52:461.
- ✓ US Food and Drug Adm; 1998, Bacteriological Analytical Manual, 8th Ed; Rev. A, AOAC, International, Gaithersburg, Md.

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