

Urea 40%

Intended Use

A filter-sterilized supplement for detection of urease activity.

Summary

Urea 40% solution is used as Selective Supplement for Urea Agar Base, Christensen or Urea broth Base. Bacterial decomposition of urea has been especially useful in distinguishing between members of *Proteus* group and other organisms.

Principle

Urea 40% solution is used in Urea Agar Base, Christensen, and Urea broth Base. It detects the urease activity, that is organism's ability to hydrolyze urea to ammonia and CO₂ is determined by inoculating a urea containing agar slant or a urea containing buffered broth. Urease positive organisms produce alkaline products, which turn the phenol red indicator pink, red colour.

Reagents / Contents

Microxpress® urea 40 % is pre-diluted Supplement.

Composition per 5 mL vial:

Urea	2.00 g
Distilled Water	5.00 mL

Storage and Stability

1. Store the Microxpress® Urea 40 % Supplement kit at 2°C-8°C, away from light.
2. Stability of the Microxpress® Urea 40 % Supplement kit is as per the expiry date mentioned on the label.

Directions

1. Warm the refrigerated contents to room temperature.
2. Aseptically add the Content of 1 vial to 95 mL sterile, molten Urea Agar Base, Christensen (2.40 g/95 mL) or Urea broth Base (1.87 g/95 mL).
3. Mix well and dispense as desired.

Interpretation of Results

Refer to appropriate references and procedures for results.

Quality Control

Cultural characteristics observed after an incubation of 24-48 hours at 30°C-35°C.

Organism (ATCC)	Growth	Urease Production
<i>Proteus hauseri</i> (13315)	Good	+
<i>Escherichia coli</i> (25922)	Good	-
<i>Klebsiella aerogenes</i> (13048)	Good	-

Remarks

1. Do not use cracked or broken vials.
2. Good laboratory practices and hazard precautions must be observed at all times.

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.

References

1. Christensen, W.B. 1946. J. Bacteriol. 52:461 -466.
2. Bailey, W.R., and E.G. Scott. 1970. Diagnostic microbiology. C.V. Mosby Co., St. Louis.
3. Data on file: Microxpress®, A division of Tulip Diagnostics (P) Ltd.

Product Presentation:**Cat No.**











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Product description

Media Selective Supplement

Pack Size

10 x 5 mL

 Temperature limit	 Manufacturer	 Batch code	 Contains sufficient for <n> tests	 This way up
 Catalogue Number	 Consult Instructions for use	 Use-by date	 Date of Manufacture	 Dehydrated Culture Media Supplements for Microbiological applications

Revision: 1125/VER-03

Disclaimer

Information provided is based on our inhouse technical data on file, it is recommended that user should validate at his end for suitable use of the product.
