

UREA 40% Supplement

Supplement for the detection of urease activity of bacteria

DESCRIPTION

UREA 40% Supplement is a supplement per la detection of urease activity of bacteria and it is made of a 40% urea aqueous solution for microbiological use. UREA 40% Supplement is used for the enrichment of medium Urea Agar Base cod. 610107 or 620107.

KIT CONTENTS

Each kit contains:

- 10 bottles each containing 5 ml of UREA 40% Supplement.
- 1 Instruction sheet

PRINCIPLE OF THE METHOD

The utilization of urea by microorganisms provided of urease causes the alkalization of medium and consequently the colour turning of indicator red phenol from amber to pink colour.

COMPOSITION

UREA 40% Supplement		
	<i>Contents / bottle</i>	<i>Contents / l of medium</i>
Urea	2.0 g	20.0 g

PROCEDURE FOR USE

1. Aseptically take the content of one bottle of UREA 40% Supplement and add it to 95 ml of Urea Agar Base cod. 610107 or 620107 autoclaved and cooled to 45-50 °C.
2. Mix with care avoiding the formation of foam.
3. Distribute into the final containers.

TECHNIQUE AND INTERPRETATION OF THE RESULTS

Refer to the technical documentation for medium Urea Agar Base cod. 610107 or 620107.

QUALITY CONTROL

1. Control of the appearance: clear, colourless solution.

2. Microbiological control:

prepare the plates using as base the medium Urea Agar Base cod. 610107 or 620107 added with UREA 40% Supplement.

The plates are inoculated with the strains indicated in the table of microbiological control.

Conditions of incubation: 6-24 h at 36 ± 1 °C.

Microbiological control:

Control strains		Ureasic activity
<i>Proteus vulgaris</i>	ATCC 13315	Positive / pink medium
<i>Escherichia coli</i>	ATCC 25922	Negative / no change in colour

PRECAUTIONS

The product UREA 40% Supplement is classified as irritant under current legislation;; it is recommended that the Safety Data Sheet be consulted on its correct use.

UREA 40% Supplement is a supplement to be used only for *in vitro* diagnostic use. It is intended for use in a professional environment and must be used in the laboratory by properly trained personnel, using approved asepsis and safety methods for handling pathogenic agents.

STORAGE

Store UREA 40% Supplement at 2-8°C in its original packaging. In such conditions UREA 40% Supplement maintains its validity until the expiry date indicated on the label. Non utilizzare oltre questa data. Eliminate without using if there are signs of deterioration.

REFERENCES

- Christensen, W.B. (1946). J. Bact. **52**: 461-466.
- Maslen, L.G.C. (1952). Brit. Med. J. **2**: 545-546.

PRESENTATION

product	REF	
UREA 40% Supplement	80292	10 bottles

One bottle is sufficient to prepare 100 ml of medium

TABLE OF SYMBOLS

 IVD In Vitro Diagnostic Medical Device	 Do not reuse	 Manufacturer	 Contains sufficient for <n> tests	 Temperature limitation
 REF Catalogue number	 Fragile, handle with care	 Use by	 Caution, consult accompanying documents	 LOT Batch code



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