

UREA BROTH

A differential medium for the differentiation of bacteria on the basis of their urease activity.

Dehydrated media	
Code number:	500 g: URE20500 packaging: 325 g broth base + 175 g urea 5 kg: URE25000 packaging: 3,25 kg broth base + 1,75 kg urea
Appearance of broth base:	Pinkish, homogeneous hygroscopic powder
Appearance of urea:	White pellet
pH before autoclaving (25 °C):	6,4 – 6,6
pH after autoclaving (25 °C):	6,6 – 7,0

Direction: Suspend **19 g broth base** and **10 g urea** in one litre of distilled water and heat gently to dissolve the medium completely. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly!

Warning!

The medium is heat sensitive.
No further sterilisation is necessary or desirable.

Prepared media	
Bottled media:	100 ml: URE30100, 500 ml: URE30500
Tubed media:	100 x 15 mm: URE40005 (5 ml)
Colour:	Orange
pH (25 °C):	6,6 – 7,0

Direction: Dispense the bottled media aseptically into sterile test tubes. Media in tubes are ready to use.

FORMULA OF COMPLETE MEDIUM in g/l

Peptones	1,000
Glucose	1,000
Sodium chloride	5,000
Urea	20,000
Phenol red	0,012
Buffers	2,000

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media and the urea tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at room temperature. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Reactions	Incubation time: 24 h
<i>Proteus mirabilis</i> ATCC 29906		Positive : colour change to purple - red	
<i>Escherichia coli</i> ATCC 25922		Negative: without colour change	

References: Christensen (1946) J. Bact. 52: 461.

In vitro diagnostic – for professional use only!