

UREA AGAR BASE

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

Dehydrated media	
Code number:	500 g: URD20500-04, 5 kg: URD25000-04
Colour:	Pinkish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,6 – 7,0

Direction: Suspend **2,2 g** in 95 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of **one vial of Urea (40%) Solution, Sterile (URS80005)**. Mix well and dispense aseptically into sterile test tubes. Allow to cool in slanted position.

Prepared media	
Bottled media:	100 ml: URD30100-04, 500 ml: URD30500-04
Tubed media:	100 x 15 mm: URD40005-04 (5 ml - slant)
Colour:	Orange
pH (25 °C):	6,7 – 6,9

Direction: Dispense the melted bottled media aseptically into sterile test tubes. Allow to cool in slanted position. Media in tubes are ready to use.

FORMULA in g/l

Peptones	1,000
Glucose	1,000
Sodium chloride	5,000
Phenol red	0,012
Buffers	2,000
Agar	13,000

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

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled and tubed media protected from light at 2-8 °C. 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!