

## UREA AGAR

A differential medium for the differentiation of bacteria on the basis of their urease activity according to ISO 9308.

Dehydrated media	
Code number:	500 g: URD20500, 5 kg: URD25000
Packaging of 500 g:	380 g agar base + 120 g urea
Packaging of 5 kg:	3,8 kg agar base + 1,2 kg urea
Appearance of agar 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 **32 g agar base** and **10 g urea** in one litre of distilled water and heat with frequent agitation until the medium boils well. Dispense into test tubes and sterilise by autoclaving at 115 °C for 15 minutes. Cool quickly! Allow to cool in slanted position.

### Warning!

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

Prepared media	
Bottled media:	100 ml: URD30100, 500 ml: URD30500
Tubed media:	100 x 15 mm: URD40005 (5 ml - slant)
Colour:	Orange
pH (25 °C):	6,6 - 7,0

**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 OF COMPLETE MEDIUM in g/l

Casein peptone	1,000
Glucose	1,000
Sodium chloride	5,000
Urea	20,000
Phenol red	0,012
Potassium phosphate, monobasic	2,000
Agar	13,000

**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 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.  
ISO 9308-1:2015

**In vitro diagnostic - for professional use only!**