

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 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!