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Specification

Product: **Urea/BUN
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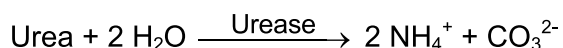
Intended use:

In vitro test for the quantitative determination of urea/urea nitrogen in human serum, plasma and urine on Roche/Hitachi cobas c systems.

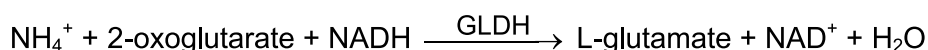
Test principle:

Kinetic test with urease and glutamate dehydrogenase.

Urea is hydrolyzed by urease to form ammonium and carbonate.



In the second reaction 2-oxoglutarate reacts with ammonium in the presence of glutamate dehydrogenase (GLDH) and the coenzyme NADH to produce L-glutamate. In this reaction two moles of NADH are oxidized to NAD⁺ for each mole of urea hydrolyzed.



The rate of decrease in the NADH concentration is directly proportional to the urea concentration in the specimen and is measured photometrically.

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1. Reagents-working solutions:

1.1 Buffer/enzyme/substrate solution (B):

1.1.1 pH-value (25 °C): 8.50 - 8.70

1.2 Sodium chloride solution (C):

1.2.1 Assay of sodium chloride: 87.3 - 92.7 mg/mL

2. Performance test:

2.1 Recovery on Roche/Hitachi cobas c 701/702 analyzer(s):

PreciControl ClinChem Multi 1 (Cat. No. 05947626190): 90 - 110 %

PreciControl ClinChem Multi 2 (Cat. No. 05947774190): 90 - 110 %

Also required:

Calibrator f.a.s. (Cat. No. 10759350190)