

Urea (BUN) Colorimetric Assay Kit (Diacetyl Oxime Method)

Cat No: HR3BC1194

For research use only

Overview

Detection Method	Colorimetric method
Storage	2-8?
Instrument	Spectrophotometer(520 nm)
Assay Time	60 min
Validity	6
Assay Type	Quantitative
Sample Type	Serum,plasma,saliva,urine
Synonyms	BUN
Instrument	Spectrophotometer(520 nm)
Detection Principle	In strong acidic and heating condition, urea can react with diacetyl to form red diazine compound. The depth of color is proportional to the content of urea. Because the instability of the diacetyl, the diacetyl oxime usually react with the strong acid firstly in the reaction system to generate diacetyl, then react with urea to generate the red diazine compound. The reaction equation is as follows:
Reagents	Normal saline (0.9% NaCl), PBS (0.01 M, pH 7.4)
Labware	Vortex mixer, Micropipettor, Incubator? Water bath
Size	100Assays
Sensitivity	0.12 mmol/L
Detection Range	0.12-15 mmol/L
Recovery Rate	101