



Teco Diagnostics

Intended Use

Urea nitrogen (BUN) liquid reagent is used for the kinetic quantitative determination of Urea Nitrogen (BUN) in human serum used in routine examination and monitoring of therapy and relapses.

Principle

Urea is catalytically converted to ammonium carbonate by the use of urease. The reaction rate is dependent upon the concentration of the influence of glutamic dehydrogenase. The rate of the second reaction is dependent upon the first and can be measured by the rate of conversion of NADH to NAD by the change of absorbency at 340 nm.

CONTACT US:

TECO DIAGNOSTICS

1268 N. Lakeview Avenue
Anaheim, CA 92807
Tel: 714-463-1111
Fax: 714-463-1169

Test:

Urea Nitrogen (BUN) Liquid Reagent (B549-150)

Number of Tests:

150 tests

Format:

Liquid

Method:

Kinetic

Testing Procedure:

Manual

Storage Temperature:

2-8°C

Wavelength:

340 nm

Linearity:

80 mg/dL

Expected Values:

BUN: 8-23 mg/dL

Urea(mg/dL) : BUN(mg/dL)*2.14

Urea(mmol/L): Urea(mg/dL)*0.167

It is strongly suggested that each laboratory establish its own range of expected values.

Reagent Deterioration:

Discard reagent if it appears cloudy or contains particulate matter.

The working reagent is stable for two weeks at 2-8°C. Protect the reagent from light.

The reagent should be discarded if the initial absorbance, read against distilled water at 340 nm, is below 1.000.

Limitations of Procedure:

Fluoride and ammonia cause interference with the BUN assay. Blood collected in the tubes containing ammonium heparinate should not be used.