



Teco Diagnostics

Intended Use

For the quantitative determination of uric acid in serum.

Principle

Uric acid is converted by uricase into allantoin and hydrogen peroxides. The hydrogen peroxide initiates the coupling of 4-aminoantipyrine to 3,5-dichloro-2-hydroxybenzene sulfonic acid (DHBS) to form the chromogen which is measured at 520 nm and which is proportional to the amount of hydrogen peroxide generated from uric acid.

CONTACT US:

TECO DIAGNOSTICS

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Test:

Uric Acid Reagent Set (U580 – 240)

Number of Tests:

240 tests
20 x 12 mL

Format:

Powder

Method:

Enzymatic

Testing Procedure:

Manual

Storage Temperature:

2 – 8°C

Reconstituted Stability:

30 days at 2 – 8°C

Wavelength:

520 nm

Expected Values:

1.5 – 7.0 mg/dL

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

Linearity:

25 mg/dL

Reagent Deterioration:

The reagent should be discarded if: (1) Turbidity has occurred; (2) Moisture has penetrated the vial and caking has occurred. The reagent blank has an absorbance of 0.40 or greater at 520 nm.

Note: A slight pink color is normal.

Limitations of Procedure:

Bilirubin and ascorbic acid can result in falsely depressed uric acid levels.

Lipemic samples may cause falsely elevated uric acid levels.

Collection tubes containing formaldehyde as a preservative must be avoided.