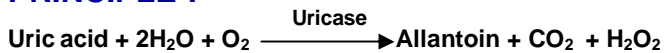


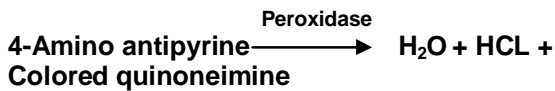
URIC ACID

Enzymatic Colorimetric Method 50 Tests

PRINCIPLE :



$\text{H}_2\text{O}_2 + 3,5, \text{Dichloro-2- hydroxybenzensulphonate} +$



SAMPLE :

Serum . plasma or urine

Hemolysis interferes with the test. Heat the urine for 10 min. at 60°C. Centrifuge if the urine is turbid .

Dilute urine 10 times before the assay (1+9 ml/d.H₂O).

NORMAL VALUES :

Serum: Men 3 – 7 mg / dl (178.5 – 416.5 μmol/L).

Women 2 – 6 mg / dl (119 – 357 μmol/L).

Urine: 250 – 750 mg / 24 hrs (1.5 – 4.5 mmol/24 hrs).

REAGENTS :

1.	Standard	6 mg / dL (395 μmol/L)
2.	Chromogen - Buffer	
	Tris buffer	50 mmol / L
	3,5, Dichloro – 2 – hydroxybenzen sulphonate	5.0 mmol / L
	Surface – active agent .	
3.	Enzymes :	
	Uricase	> 500 IU / L
	Peroxidase	> 2000 U / L
	4 -Aminoantipyrine	0.20 mmol /L
	Stabilizer and preservative	

STABILITY :

The reagents are stable up to the expiry date specified when stored at +4 to +8 °C away from light .

PROCEDURE :

Working reagent : Mix equal volumes of reagent 2 and 3 immediately before the assay .

	Blank ml	Standard ml	Sample ml
Standard	-	0.05	-
Sample	-	-	0.05
Working reagent	1.0	1.0	1.0

Mix, incubate for 10 min. at 37°C. Read the absorbances of the sample (A_{Sample}) and the standard (A_{Standard}) against blank, at 510 nm.

(490 - 550) . Color is stable for 30 min.

Linearity up to 30 mg / dL .

CALCULATION :

Uric Acid in serum

$$= \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times \text{Standard Conc.}$$

$$\text{Uric acid in urine (mg / dl)} = \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times 100$$

REFERENCE :

Barham, D., Trinder, P ., (1972) : Analyst, 97 , 142 .

QUALITY CONTROL :

For accuracy and reproducibility control:-
Assayed Multi – Sera, Normal and Elevated

Standard Curve of Uric Acid

mg/dL	O.D 510 nm
2.50	0.12
5.00	0.25
10.00	0.51
15.00	0.77
20.00	1.06
25.00	1.34
30.00	1.61

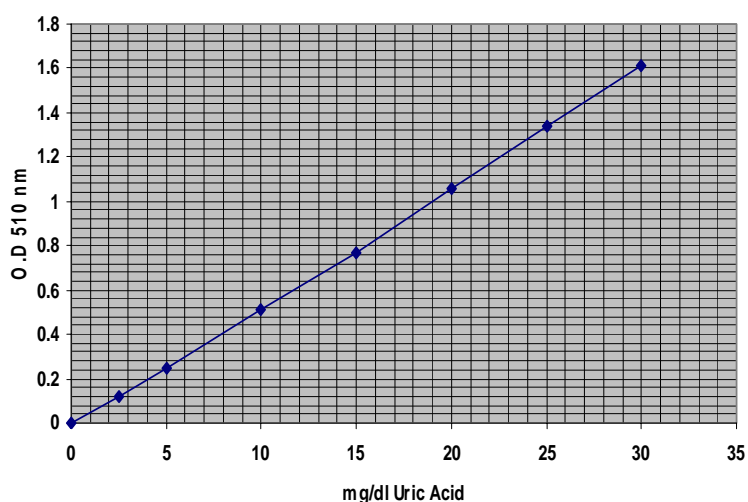
BIODIAGNOSTIC
DIAGNOSTIC AND RESEARCH REAGENTS

URIC ACID

Enzymatic Colorimetric Method
+4 to +8°C 50 Tests
In vitro diagnostic use

CAT. NO.

UA 21 20



REAGENTS

R1 Standard	2.5 ml
R2 Chromogen- Buffer	25 ml
R3 Enzymes	25 ml

CONTACTS

Tele: 02-33385184

Mobil: 0109 – 349 20 77

Fax : 02-33385184 (102)

e.maile : info@bio-diagnostic.com

Website: www.bio-diagnostic.com

Adress: 29 Tahreer St., Dokki, Giza, Egypt