

PROTEIN - Biuret Method

Colorimetric Method

200 Tests

PRINCIPLE :

In the presence of an alkaline cupric sulfate, the protein produces a violet color, the intensity of which is proportional to their concentration .

SAMPLE :

Serum, or plasma, Hemolysis will interfere with the test

NORMAL VALUES :

Adults : 6.5 – 8.7 g/dL .

Children : 5.5 – 8.5 g/dL .

Neonates : 5.3 – 8.9 g/dL .

REAGENTS :

1-	Standard Albumin	5 g / dL
2-	Biuret Reagent:	
	Cupric sulfate	6 mmol / L
	Sodium potassium tartrate	21 mmol / L
	Sodium hydroxide	750 mmol / L
	Potassium iodide	6 mmol / L

STABILITY :

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

PROCEDURE :

	Blank (ml)	Standard (ml)	Sample (ml)
Standard	-	0.025	-
Sample	-	-	0.025
Reagent 2	1.0	1.0	1.0

Mix well, incubate for 10 min. at 37°C. Read the absorbances of the sample (A_{Sample}) and standard (A_{Standard}) against reagent blank at 550 nm. (520 - 570 nm) . Color stable for one hour. Linearity up to 10 g / dL .

CALCULATION :

$$\text{Protein Concentration (g/dL)} = \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times 5$$

REFERENCE :

Gornal A.C; Bardawill C.J.and David M.M. (1949) : J. Biol. Chem. 177 : 751

QUALITY CONTROL :

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

PROTEIN Biuret Method

Colorimetric Method
+4 to +8°C **200 Tests**
In vitro diagnostic use

CAT. NO. TP 20 20

REAGENTS

R1 Standard **5 ml**
R2 Biuret reagent **2 x 100 ml**

CONTACTS

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