

# BHAT BIOSCAN™

Pack size. TP 2 X 125ml  
4 x 125ml

## Principle:

The peptide bonds of the protein binds with copper ions in alkaline solution to form a blue-violet complex. Tartrate is added as a stabilizer while potassium iodide is used to prevent auto-reduction of the alkaline copper complex. The intensity of the blue-violet complex is proportional to the protein concentration.

## Reagent Composition:

- Total protein reagent  
Sodium potassium tartrate 32mmol/L  
Potassium iodide 100mmol/L  
Copper sulphate 18mmol/L  
Sodium hydroxide 300mmol/L

- T. protein standard  
6gm/dl

## Reagent Preparation:

Reagent is ready to use.

## Storage & Stability:

Store at 2-8° C, and keep away from light. Unopened reagent is stable until expiry date stated on the label.

## Sample:

Unhemolysed serum or heparinised plasma can be used.

## TOTAL PROTEIN-Biuret method

Cat. No. GOD - 125

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## Procedure:

Let stand reagents and specimens at room temperature.

Tube	Blank	Standard	Test
Reagent	1000µl	1000 µl	1000 µl
Standard	-	20 µl	-
Sample	-	-	20 µl

Mix and Incubate @ room tempt. for 1 min. Read the absorbance at 630 (600-650nm) against reagent blank.

## Calculations:

Calculate the result as follows:

$$\text{T. protein (g/dl) con.} = \frac{A_{\text{sample}}}{A_{\text{standard}}} \times \text{Std.}$$

## Expected Value:

Adult : 6.6-8.7 gm/dl

Each lab should optimize its own normal range.

## Quality Control:

The assay linear up to 10gm/dl. Use always QC sera to analyze the performance of the assay.

***Reference:***

1. Weichselbaum, T.E. Amer. J.Clin. Path, 1946, 16,40-48.