BHAT BIOSCAN™

Pack size. MTP -20ml

MICROTOTAL PROTEIN

Pyrogallol method

Cat. No. MTP - 20

Principle:

In acidic condition, pyrogallol red reacts with molybdate to form pyrogallol-molybdate complex. This complex when combines with the protein, develops a blue-purple colour. The intensity of the colour is measured at 600nm, is directly proportional to the concentration of the protein in the sample.

Reagents

1. Micrototal protein reagent
2. Micrototal protein standard 100 mg/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:

1. Urine taken 24 hr collected or at random can be used.
2. CSF (cerebrospinal fluid) may also be used as a sample of choice.

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 @ 37 ^{0}C for 10 min. Read the absorbance at 600 nm against reagent blank.

Calculations:

Calculate the result as follows:

$$\text{Micrototal protein (mg/dl)} = \frac{A_{sample}}{A_{standard}} \times \text{Std.}$$

Expected Value:

	CSF	Urine
Adult :	8-50 mg/dl	20-120mg/24hr

Each lab should optimize its own normal range.

Quality Control:

The assay linear up to 300mg/dl.

Reference:

1. Fujita, Y. et al., Clin.Chem.32: 379 (1983).