

BHAT BIOSCAN™

Pack size. BBP-CL -50ml

CHLORIDE-Colorimetric

Thiocyanate method

Cat. No. BBP-CL - 50

Principle:

Chloride ions react with mercuric thiocyanate to form mercuric chloride and thiocyanate ions. The thiocyanate ions react with free ferric ions to form a coloured compound, ferric thiocyanate. The intensity of the colour developed is proportional to the chloride concentration.

Reagents:

1. Reagent (Thiocyanate)
2. Cleaning solution
3. Washing solution
5. Chloride standard 100 mmol/L

Reagent Preparation:

Monoreagent 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.

Procedure:

Let stand reagents and specimens at room temperature. All glasswares used should be soaked in 1N HCl for atleast 30min. and rinsed thoroughly with distilled water. Wash the Cuvette with cleaning solution and rinse twice with wash solution provided in the kit.

Tube	Blank	Standard	Test
Reagent	1000µl	1000 µl	1000 µl
Standard	-	10 µl	-
Sample	-	-	10 µl

Mix and Incubate @ room tempt. for 5 min. Read the absorbance at 480 nm against reagent blank.

Calculations:

Calculate the result as follows:

$$\text{Chloride (mmol/L)} = \frac{A_{\text{sample}}}{A_{\text{standard}}} \times \text{Std.}$$

Expected Value:

Serum

Adult : 98-110 mmol/L

Each lab should optimize its own normal range.

Quality Control:

The assay linear up to 130mmol/l. Use always QC sera to analyze the performance of the assay.

Reference:

1. Schoenfeld, R.G., et al., Clin. chem. 10: 533 (1964).