BIOBOON BIOTECH LLC

Innovative Diagnostics for a Healthier Tomorrow

Accurate Chloride Measurement for Better Health

Chloride Test Kit

Mercurous (II) Thiocyanate Method

Quantitative determination of Chloride in human Serum / Plasma / other body fluids.

Only for In Vitro Diagnostic Use.



TEST PRINCIPLE

Chloride reacts with mercurous thiocyanate to form mercury perchlorate and thiocyanate. Thiocyanate forms a red coloured complex with ferric ions. The intensity of the colour is proportional to the chloride concentration.



Chloride (in sample) + Mercurous (II) Thiocyanate → **Red coloured complex (Absorbed at 505 nm)**

KEY PARAMETERS (AUTOMATED / MANUAL)

Wavelength	505 nm
Reaction Type	End Point
Reaction Temperature	RT (22–30°C)
Incubation Time	5 Min.
Sample Volume	10 µL
Reagent Volume	1000 µL
Units	mEq/L

SAMPLE TYPE



Serum | **Plasma** (Lithium Heparin) | **Urine** (24-hour)

Do not use EDTA plasma.

MANUAL ASSAY PROCEDURE



1. Add 1000 µL Reagent 1 into a test tube.



2. Add 10 µL sample and mix.



3. Incubate for 5 minutes at room temperature. Read absorbance at 505 nm against reagent blank.

REFERENCE VALUES

Serum	95 – 115 mEq/L
Urine (24 hours)	110 – 250 mEq/24 h
CSF	95 – 110 mEq/L
Sweat	Upto 60 mEq/L

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Global Diagnostic Solutions for a Healthier Tomorrow

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