

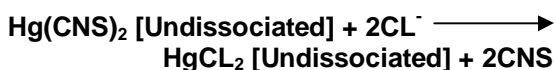
## CHLORIDE

**Colorimetric Method**

**50 Tests**

### PRINCIPLE :

Chloride ions react with mercurious thiocyanate to form mercury perchlorate and thiocyanate. The liberated thiocyanate forms a red complex with ferric chloride in the presence of nitric acid.



### REFERENCE VALUES:

97 – 107 mmol/L.

### SAMPLES :

Serum, EDTA plasma or heparinized plasma, cerebrospinal fluid, amniotic fluid, urine.

### REAGENTS :

1-	Standard	100 mm/L
2-	<b>Thiocyanate Reagent:</b>	
	Ferric nitrate	30 mmol/L
	Mercuric nitrate	2 mmol/L
	Ammonium chloride	2 mmol/L
	Ammonium thiocyanate	4 mmol/L
	Nitric acid	34 mmol/L

### STABILITY :

Reagents are stable up to the expiry date when stored at +15 to +25 °C.

### PROCEDURE:

Pipette into cuvette:

	Blank (ml)	Standard (ml)	Sample (ml)
Sample	-	-	0.01
Standard (R1)	-	0.01	-
Reagent (R2)	1.0	1.0	1.0

Mix, and incubate for 5 mins. at 37°C. Measure the absorbance of the sample ( $A_{\text{Sample}}$ ) and standard ( $A_{\text{Standard}}$ ) against the reagent blank at 456 nm (440 – 480 nm) color stable for one hours. Linearity between 50 – 150 mmol / L.

### CALCULATION :

Chloride Concentration

$$(\text{mmol/L}) = \frac{A_{\text{Sample}}}{A_{\text{Standard}}} \times 100$$

### QUALITY CONTROL :

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

### REFERENCE :

Schales, O. and Schales, S. S. (1941)  
J. Biol. Chem., 140, 879.

## CHLORIDE

**Colorimetric Method**  
+15 to 25°C **50 Tests**  
In vitro diagnostic use

**CAT. NO. CL 12 11**

## REAGENTS

**R1 Standard 2 ml**  
**R2 Thiocyanate Reagent 50 ml**

## CONTACTS

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