

Chloride

Liquid Stable Reagent Colorimetric method by using thiocyanate Store at Room temperature

PRINCIPLE

Chloride ions forms a colored complex when it reacts with mercury (II) thiocyanate solution. The intensity of the color is proportional to the chloride concentration.

REFERENCE VALUES

Serum, plasma	95 -105 mmol/l
Urine	170 -250 mmol/l
CFS	123 -128 mmol/l

It is recommended that each laboratory should assign its own normal rang.

SAMPLES

Serum, heparin plasma, urine, cerebrospinal fluid (CFS).

REAGENTS				
R1:				
Mercury II thiocyanat	2.0 mmol/L			
Iron nitrate	20 mmol/L			
Mercury nitrate	0.15 mmol/L			
Nitric acid	45 mmol/L			
R2:				
Standard chloride	100 mmol/L			
Reagents are stable at room temperature until the expiry				
date stated on the label. Avoid direct sunlight.				

PROCEDURE

Wavelength	480 nm
Temperature	Room temperature
Cuvette	1 cm light path
Method	Endpoint (increasing)

If the absorbance of working reagent is higher than 0.1 at 492nm the reagent can not be used.

	Blank	Standard	Sample
Sample	-	-	10µl
Standard	-	10µl	
Reagent	1ml	1ml	1ml

Mix and read the optical density (O.D) after 1 minute incubation. The final color is stable for at least 1 hour.

CALCULATION

X standard concentration



mmol/l Chloride = mEq/l Chloride

LINEARITY

Up to 130 mmol/l

NOTE

-The reagent contains mercuric nitrate which is toxic.

- Anticoagulants other than heparin as EDTA must be avoided.

- Use acid washed glassware or plastic tubes.

SPECIFICATION

Bilirubin 0.5g/l, lipid 7g/l, glucose 10g/l and ascorbic acid 0.35g/l do not interfere with the assay up to the given levels.

	PRESENTATION		
4 X 60 ml	Cat No 1201	240 Tests	

BIBLIOGRAPHY

Schoenfeld. R. g., et al Clin. Chem .10, 533,(1964).

The following symbols are used on labels

IVD

For in vitro diagnostic use

Use day (last day of the month)



Temperature limitation



REF

Batch code

Code