

CHLORIDE FS*

Order information

Cat. No.	Kit size
10 120 021	R 5 x 25 ml + 1 x 3 ml standard
1 1200 99 10 026	R 6 x 100 ml
10 120 023	R 1 x 1000 ml
10 120 030	6 x 3 ml standard

Method

Colorimetric test, "Thiocyanate"

Chloride is releasing equivalent quantities of Thiocyanate from Mercury (II) Thiocyanate. Together with Iron ions Thiocyanate forms a red colored complex. The intensity of the color is proportional to the Chloride concentration.

Reagent preparation and stability

The reagent is ready-to-use and stable up to the end of the indicated month of expiry, if contamination is avoided, stored at 15 – 25 °C and protected from light.

Stability of standard: until expiry date, when stored at 2 – 25 °C

Specimen

Serum, plasma. Avoid hemolysis!

Components and concentration in the test

Mercury (II) Thiocyanate	2 mmol/l
Mercury (II) Chloride	0.8 mmol/l
Ferric (III) Nitrate	20 mmol/l
Nitric acid	28 mmol/l

Standard: 100 mEq/l (mmol/l)

Notes

The reagent contains Mercury (II) Thiocyanate and Mercury (II) Chloride. Do not swallow! Avoid contact with skin and mucous membranes.

Normal range (see reference 1,2)

Adults:	98 - 110 mEq/l	(98 - 110 mmol/l)
Children:	95 - 112 mEq/l	(95 - 112 mmol/l)

References

- Schoenfeld, R. G., Lewellen, C. J., Clin. Chem., 10, (1964), 533
- Witt, I., Trendelenburg, Chr., J. Clin. Chem. Clin. Biochem., 20, (1982), 235 - 242

SYNCHRON CX-CLINICAL SYSTEM

USER-DEFINED CHEMISTRY SETUP

Test Name:	CL	User def. No:	#
Chem. Name:	Chloride		
Reaction Type:	ENDPOINT 2		
Unit:	mEq/l	No of Calibrators	1
Decimal Prec.:	x	Calibrator1:	*
Reaction Dir.:	positive	2:	
Calculation Factor:	*	3:	
Math. Model:	Linear	4:	
Cal. Time Limit:	168 h	5:	
		6:	
Prim. Wavelength:	470	Sec. Wavelength:	600
Reagent 1 [A] Vol:	250 µl	[B] Vol.:	0 µl
Reagent 2 [C] Vol.:	0 µl	Add Time:	0s
Sample Volume:	3 µl		
Reagent Blank		Reaction	
Start Read:	250 sec	Start Read:	280s
End Read:	300 sec	End Read:	300s
Usable Range Lower Limit:	80		
Upper Limit:	130		
Error Detection Limits			
Reagent Blk Low:	-0.500	Reaction Low:	-0.500
High:	1.500	High:	1.500
Substrate Depletion:			
Initial Rate:		Delete Abs.:	
Multipoint Span:			

#) Data entry by the user

*) Enter calibrator value or factor (the factor has to be checked by calibration or controls)

F4 Special Functions

- 5 Enter user defined Chemistry
- F1 Define/Check
- Enter number between 1 - 100

* fluid stable