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

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

* fluid stable

HITACHI 917

Chemistry parameters

Analysis

Test / Type	CL						Ser/Pl			
Assay / Time / Point	1 Point End	A	10	A	20	0	0	0		
Wave (2nd/Primary)	600	A	450	A						
S.Vol (Normal)	2	0	0							
S.Vol (Decrease)	1	0	0							
S.Vol (Increase)	4	0	0							
Diluent	00951	99							Timing	
Reagent (R1) T1	180	0	#	60					R1	
Reagent (R2) T2	0	0	#	0					R2	
Reagent (R3) T3	0	0	#	0					R3	
Reagent (R4) T4	0	0	#	0						
Abs. Limit	12000	Increase	A							
Prozone Limit	32000	0	Lower	A						
Cell Detergent	Detergent 1	A								

Calibration

Calibration type	Linear	A		A
Point	2	Span Point	2	
Weight	0			

Autocalibration

	Time Out	Change Over	
Blank		Blank	A
Span		Blank	A
2Point			
Full			

SD Limit	0.1			
Duplicate limit	10	%	200	Abs
Sensitivity limit	-99999	999999		
S1 Abs limit	-32000	32000		

Range

Application Code	#	Unit	mmol/l	A				
Report Name	Chloride							
Data Mode	On Board	A						
Control Interval	1000							
Instrument Factor (Y=aX+b)	a=	1.0	b=	0.0				
Technical Limit	0	130						
Repeat Limit	0	130						
Expected Value								

							Qualitative		
(Male)	1	Y	A					Cancel	A
	100	Y	A			(1)	0		
				98	110	(2)	0		
(Female)	1	Y	A			(3)	0		
	100	Y	A			(4)	0		
						(5)	0		
(Default)	Male	A	Range3	A		(6)	0		

Others

<Standard>	(1)	(2)	(3)	(4)	(5)	(6)
Calib. Code	501	#				
Concentration	0	*				
Position						
Sample Volume	2	2				
Diluent S.Vol	0	0				
Diluent Volume	0	0				

#) Data entry by the user
*) Enter calibration or standard value

15.04.08