

Dokumenttyp:	<b>Kvalitetsmanual</b>
Dokumentnamn:	<b>Bilaga 01, Ackrediteringens omfattning, kemlab</b>

Komponent/Undersökning	System	Mätprincip/Metod	Utrustning	Enhet	Nivå (cirka)/Mätosäkerhet		Ort		
Alaninaminotransferas, ALAT	Serum	Fotometri, katalytisk	Alinity c	µkat/L	0,48/5%	2,64/3%	GE, KA, KX, SUN, PE		
Albumin	Serum	Fotometri, bromkresolpurpur	Alinity c	g/L	27/6%	52/3%	GE, KA, KX, SUN, PE		
Albumin	Urin	Turbidimetri, immunologisk	Alinity c	mg/L	14,9/4%	139,6/3%	SUN		
Amylas	Serum	Fotometri, CNPG3-substrat	Alinity c	µkat/L	1,5/8%	5,5/5%	GE, KA, KX, SUN, PE		
Antitrombin, AT	Plasma	Fotometri, Trombin	Sysmex CS-2500	kIE/L	0,43/17%	0,96/6%	SUN		
Antitrypsin, Alfa-1, A1AT	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,95/4%	1,80/3%	SUN		
Apo A1	Serum	Fotometri, immunturbidimetrisk	Alinity c	g/L	1,11/4%	1,48/4%	SUN		
Apo B	Serum	Fotometri, immunturbidimetrisk	Alinity c	g/L	0,74/7%	1,07/6%	SUN		
Aspartat aminotransferas, ASAT	Serum	Fotometri, katalytisk	Alinity c	µkat/L	0,65/3%	2,97/4%	GE, KA, KX, SUN, PE		
Beta-2-mikroglobulin	Serum	Turbidimetri, immunologisk	Alinity c	mg/L	1,00/5%	1,98/5%	SUN		
Bilirubin, total	Serum	Fotometri, diazo	Alinity c	µmol/L	18,5/8%	246/3%	GE, KA, KX, SUN, PE		
Calcium, Ca	Serum	Fotometri, arsenazo III	Alinity c	mmol/L	2,18/5%	2,86/3%	GE, KA, KX, SUN, PE		
Calcium, joniserat ,Jon Ca <sup>2+</sup>	Serum	Potentiometri, jonselektiv	ABL825 FLEX	mmol/L	0,4/7%	0,5/4%	1,0/2%	1,6/3%	SUN
CDT	Serum	Fotometri, jonbyteskromatografi	Shimadzu Prominence-i LC2030C	%	1,5/12%	3,0/6%	SUN		
C-reaktivt protein, CRP	Serum	Fotometri, immunologisk	Alinity c	mg/L	14,3/5%	71,7/4%	GE, KA, KX, SUN, PE		
Cyklosporin	Blod	Kemiluminiscens, immunologisk (CMIA)	Alinity i	µg/L	106/16%	868/12%	SUN		
Cystatin C	Serum	Turbidimetri, immunologisk	Alinity c	mg/L	1,01/4%	3,84/3%	SUN		
Differentialräkning	Blod	Flödescytometri	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	x10 <sup>9</sup> /L	Neut 1,2/5%	3,0/4%	GE, KA, KX, SUN, PE		
					Eos 0,27/10%	0,69/9%			
					Baso 0,15/8%	0,34/8%			
					Lymf 1,00/8%	1,93/5%			

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					Mono 0,40/16%	0,99/12%	
Differentialräkning	Blod	Ljuskroskop/digitalt	Mikroskop/DI-60	x10 <sup>9</sup> /L	Enl. Equalis rek. 95% konf.intervall		GE, KA, KX, SUN, PE
Digoxin	Serum	Turbidimetri, immunologisk (PETINIA)	Alinity c	nmol/L	1,80/9%	3,30/7%	SUN
Erythrocyter, antalskoncentration	Blod	Hydrodynamisk fokusering	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	x10 <sup>12</sup> /L	2,30/2%	4,40/1%	GE, KA, KX, SUN, PE
Erythrocyt, volymfraktion, EVF	Blod	Hydrodynamisk fokusering	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)		0,18/2%	0,35/2%	GE, KA, KX, SUN, PE
Etanol	Serum	FID, Flame Ionization Detector, gaskromatografi	Shimadzu GC 2010Plus	mmol/L	31,4/7%	17,1/6%	SUN
Etanol	Serum	Spektroskopisk, enzymatisk	Alinity c	mmol/L	20/10%	47/6%	GE, KA, KX, SUN, PE
Etylenglykol	Serum	FID, Flame Ionization Detector, GC	Shimadzu GC 2010Plus	mmol/L	4,0/24%	7,5/13%	SUN
Fenytoin	Serum	Spektroskopisk, enzymatisk	Alinity c	µmol/L	57/5%	97/5%	SUN
Ferritin	Serum	CMLA, immunologisk	Alinity i	µg/L	30/6%	350/5%	SUN
Fibrinogen	Plasma	Fotometri, trombininducerad	Sysmex CS-2500	g/L	1,3/8%	2,5/11%	SUN
Folat	Serum	CMLA, Folatbindande protein	Alinity i	nmol/L	9/12%	35/7%	SUN
Follikelstimulerande hormon, FSH	Serum	Kemiluminiscens, CMLA (immunologisk)	Alinity i	IU/L	5/4%	40/5%	SUN
Fosfat	Serum	Spektroskopisk, fosfomolybdat	Alinity c	mmol/L	1,16/3%	2,19/2%	GE, KA, KX, SUN, PE
Fosfatas alkalisk, ALP	Serum	Spektroskopisk, Paranitrofenylfosfat	Alinity c	µkat/L	2,1/4%	8,5/5%	GE, KA, KX, SUN, PE
Gentamicin	Serum	Turbidimetrisk, PETINIA-analys	Alinity c	mg/L	4,6/8%	7,5/8%	SUN
Glukos	Serum	Spektroskopisk, Hexokinas/G-6-PDH	Alinity c	mmol/L	4,3/3%	16,2/2%	GE, KA, KX, SUN, PE
Glutamytransferas, γGT	Serum	Spektroskopisk, enzymatisk	Alinity c	µkat/L	1,20/3%	7,23/2%	GE, KA, KX, SUN, PE
Haptoglobin	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,7/4%	1,5/3%	SUN

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Hemoglobin A1c, HbA1c	Blod	Spektroskopisk, enzymatisk	Alinity c	mmol/mol	36,9/3% 79,2/3% 52,7/3%	SUN
Hemoglobin, Hb	Blod	Natriumlaurylsulfat metod	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	g/L	60/2% 120/1%	GE, KA, KX, SUN, PE
Homocystein	Serum	CMIA, immunologisk	Alinity i	µmol/L	13/5% 25/5%	SUN
Humant koriongonadotropin + β subenhet, hCG+β	Serum	Elektrokemiluminiscens, immunologisk	Alinity i	U/L	4/9% 400/4%	SUN
Immunfixation, IF	Serum	Elektroforetisk separation	SEBIA, Hydrasys 2		Ej kvantitativ metod.	SUN
Immunglobulin A, IgA	Serum	Turbidimetri, immunologisk	Alinity c	g/L	1,6/3% 2,97/3%	SUN
Immunglobulin E totalt, tIgE	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	Låg/14% Hög/9%	SUN
Immunglobulin E specifikt d1 (kvalster <i>D. pteronyssinus</i> ), slgE d1	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	9%	SUN
Immunglobulin E specifikt e1 (katt), slgE e1	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	10%	SUN
Immunglobulin E specifikt e5 (hund), slgE e5	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	11%	SUN
Immunglobulin E specifikt f1 (äggvita), slgE f1	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	10%	SUN
Immunglobulin E specifikt f2 (mjölk), slgE f2	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	14%	SUN
Immunglobulin E specifikt f13 (jordnöt), slgE f13	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	11%	SUN
Immunglobulin E specifikt g6 (timotej), slgE g6	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	12%	SUN
Immunglobulin E specifikt t3 (björk), slgE t3	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	9%	SUN
Immunglobulin E specifikt w6 (gråbo), slgE w6	Serum	Fluoroenzymimmunoassay	Phadia 250	kU/L	11%	SUN
Immunglobulin G, IgG	Serum	Turbidimetri, immunologisk	Alinity c	g/L	7,0/3% 14,0/3%	SUN

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Immunglobulin M, IgM	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,60/7% 1,23/4%	SUN
Isopropanol	Serum	FID, Flame Ionization Detector, gaskromatografi	Shimadzu GC 2010Plus	mmol/L	12,5/7% 13,0/6%	SUN
Järn	Serum,	Spektroskopisk, ferene, färgkomplex	Alinity c	μmol/L	19,1/6% 46,1/5%	SUN
Transferinmättnad	Serum	Beräknad	Alinity c			SUN
Kalium, K	Dialysvätska	Potentiometri, jonsektiv	ABL825 FLEX	mmol/L	1,8/3% 3,8/2% 5,5/2% 6,3/1%	SUN
Kalium, K	Serum	Potentiometri, jonsektiv (ICT)	Alinity c	mmol/L	2,72/3% 5,08/3%	GE, KA, KX, SUN, PE
Karbamazepin	Serum	Spektroskopisk, enzymatisk	Alinity c	μmol/L	17,8/9% 60,0/5%	SUN
Karbonat, total, CO <sub>2</sub> , tot	Serum	Spektroskopisk, enzymatisk	Alinity c	mmol/L	13,4/8% 24,2/7%	GE, KX, SUN, PE
Klorid	Dialysvätska	Potentiometri, jonsektiv	ABL825 FLEX	mmol/L	67/3% 91/3% 98/2% 123/2%	SUN
Klorid	Serum	Potentiometri, jonsektiv (ICT)	Alinity c	mmol/L	84,3/2% 108,8/3%	GE, KA, KX, SUN, PE
Kobalamin, B12	Serum	CMA, immunologisk	Alinity i	pmol/L	200/10% 700/6%	SUN
Kolesterol	Serum	Spektroskopisk, enzymatisk	Alinity c	mmol/L	3,90/2% 6,38/2%	GE, KA, KX, SUN, PE
HDL-Kolesterol	Serum	Spektroskopisk, kolesteroloxidas	Alinity c	mmol/L	0,98/3% 1,32/4%	SUN
Komplementfaktor C3	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,91/3% 1,90/4%	SUN
Komplementfaktor C4	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,17/5% 0,35/4%	SUN
Kortisol	Serum	Elektrokemiluminiscens, immunologisk	Alinity i	nmol/L	100/13% 850/5%	SUN
Kreatinkinas, total, CK tot	Serum	Spektroskopisk metod, enzymatisk	Alinity c	μkat/L	2,4/5% 11,6/5%	GE, KA, SUN, PE
Kreatinin	Serum	Spektroskopisk, enzymatisk	Alinity c	μmol/L	88,7/3% 517/3%	GE, KA, KX, SUN, PE
Kreatinin	Urin	Spektroskopisk, enzymatisk	Alinity c	mmol/L	6,57/3% 12,0/3%	GE, KA, KX, SUN, PE
Laktatdehydrogenas, LD	Serum	Spektroskopisk, enzymatisk	Alinity c	μkat/L	2,57/7% 9,05/3%	GE, KA, KX, SUN, PE

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Leukocyter, antalskoncentration	Blod	Flödescytometri	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	x10 <sup>9</sup> /L	2,90/4%	6,50/3%	GE, KA, KX, SUN, PE
Litium	Serum	Spektroskopisk, färgkomplex	Alinity c	mmol/L	1,09/5%	2,43/3%	GE, KA, SUN, PE
Luteiniserande hormon, Lutropin, LH	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	IU/L	3,5/5%	45/5%	SUN
Magnesium, Mg	Serum	Spektroskopisk, enzymatisk	Alinity c	mmol/L	0,83/4%	1,83/2%	GE, KA, KX, SUN, PE
Hemoglobinmassa, MCH	Blod	Beräknat från Hb och EPK	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	pg	23/2%	27/2%	GE, KA, KX, SUN, PE
Medelcell hemoglobinkoncentration, MCHC	Blod	Beräknat från Hb och EVF	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	g/L	330/2%	340/2%	GE, KA, KX, SUN, PE
Medelcellvolym, MCV	Erytrocyter	Beräknad från EPK och EVF	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	f/L	78/1%	81,5/1%	GE, KA, KX, SUN, PE
Metanol	Serum	FID, Flame Ionization Detector, gaskromatografi	Shimadzu GC 2010Plus	mmol/L	23,3/11%	24,6/6%	SUN
Myoglobin	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	µg/L	29/6%	230/5%	SUN
Natrium, Na	Dialysvätska	Potentiometri, jonselektiv	ABL825 FLEX	mmol/L	130/2%	140/2% 160/1%	SUN
Natrium, Na	Serum	Potentiometri, jonselektiv (ICT)	Alinity c	mmol/L	121,4/2%	144,0/1%	GE, KA, KX, SUN, PE
Orosomukoid	Serum	Turbidimetri, immunologisk	Alinity c	g/L	0,51/6%	0,99/5%	SUN
Osmolalitet Osmol	Serum	Fryspunktsbestämning	Gonotec Osmomat 3000 basic/Osmometer Löser typ 15	mosm/kg	100/1%	817/2%	GE, KA, SUN, PE
Paracetamol	Serum	Enzymatisk, kolorimetrisk	Alinity c	µmol/L	450/4%	1540/2%	GE, KA, KX, SUN, PE
Paratyreoideahormon, PTH	Plasma	Elektrokemiluminiscens, immunologisk	Alinity i	pmol/L	17,1/9%	130/5%	SUN
Pro Brain natriuretic peptide (1-76), NT-ProBNP	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	ng/L	140/10%	5000/10%	GE, KA, KX, SUN, PE

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Procalcitonin, PCT	Serum, plasma	Kemiluminiscens, CMIA (immunologisk)	Alinity i	µg/L	0,2/5%	70/7%	GE, SUN
Prolaktin, PRL	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	mU/L	80/5%	850/4%	SUN
Prostata specifikt antigen, PSA	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	µg/L	0,6/5%	22/6%	SUN
Prostata specifikt antigen, fritt, PSA, fritt	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	µg/L	0,45/5%	9,4/5%	SUN
Proteinelektrofores	Serum	Elektroforetisk separation	SEBIA, Hydrasys 2		Ej kvantitativ metod		SUN
Protrombinkomplex, PK	Plasma	Turbidimetri/Nefelometri, clot	Sysmex CS-2500		1,0/4%	2,5/6%	GE, KA, KX, SUN, PE
Salicylat	Serum	Enzymatisk, kolorimetrisk	Alinity c	mmol/L	0,9/5%	2,6/5%	GE, KX, SUN
Takrolimus	Blod	Kemiluminiscens, immunologisk (CMIA)	Alinity i	µg/L	7/5%	25/5%	SUN
Tobramycin	Serum	Turbidimetrisk, PETINIA-analys	Alinity c	mg/L	1,4/5%	5,1/5%	GE, SUN
Transferrin	Serum	Turbidimetri, immunologisk	Alinity c	g/L	1,9/5%	3,5/6%	SUN
Triglycerider	Serum	Spektroskopisk, Glycerolfosfatoxidase	Alinity c	mmol/L	1,39/3%	2,80/4%	GE, KA, KX, SUN, PE
Trijodtyronin, fritt, FT <sub>3</sub>	Serum	Kemiluminiscens, CMIA	Alinity i	pmol/L	5/8%	15/4%	SUN, PE
Trombocyter, antalskoncentration	Blod	Hydrodynamisk fokusering	Sysmex XN-1000 (KA, KX, SUN) Sysmex XR-1000 (GE, PE)	x10 <sup>9</sup> /L	94/15%	240/4%	GE, KA, KX, SUN, PE
Tromboplastintid, aktiverad, partiell, APTT	Plasma	Turbidimetri/Nefelometri, clot	Sysmex CS-2500	s	30/4%	65/4%	GE, KA, KX, SUN, PE
Troponin I hs	Serum	Kemiluminiscens, CMIA (immunologisk)	Alinity i	ng/L	11,0/8%	844/8%	GE, KA, KX, SUN, PE
Tyreoidestimulerande hormon, TSH	Serum	Kemiluminiscens, CMIA	Alinity i	mU/L	3,5/4%	20/4%	SUN, PE
Tyroxin, fritt, FT <sub>4</sub>	Serum	Kemiluminiscens, CMIA	Alinity i	pmol/L	12/6%	35/6%	SUN, PE
Urat	Serum	Spektroskopisk, urikas	Alinity c	µmol/L	247/3%	623/2%	GE, KA, KX, SUN, PE

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Urea	Serum	Spektroskopisk. enzymatisk	Alinity c	mmol/L	7,2/4%	19,5/2%	GE, KA, KX, SUN, PE
Vancomycin	Serum	Turbidimetrisk, PETINIA-analys	Alinity c	mg/L	18,0/4%	34,0/4%	GE, SUN

**Förkortningar**

GE: Gällivare sjukhus

KA: Kiruna sjukhus

KX: Kalix sjukhus

SUN: Sunderby sjukhus

PE: Piteå sjukhus