

Uncertainties of quantitative measurements for the tests carried out at the laboratory.

Tests	Units of measurement	2013			2014			2015			2016			2017			Target CV	Admissible total CV
		Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers		
		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
Androstendion	ng/ml	10.5	10.56		10.4	8.0		9.57	7.64		10.15	6.66		11.08	7.38		17.8	23.5
17 alpha-OH progesteron	ng/ml		12.7	9.4		9.6	9.9		8.2	8.5		10.6	7.8				9.2	29.7
Aldosterone	pg/ml	12.4	8.25		12.9	8.2		12.3	8.0		12.3	7.9					10.5	36.7
Parathormons	pg/ml	5.48	8.78		5.50	5.04		8.55	7.76		7.59	7.63		7.52	7.68		8.4	30.2
Testosterone	ng/dl	4.20	4.53		4.26	4.87			3.75	3.98		3.88	3.56		3.9	3.3	11.7	14.0
Ferritin	ng/ml	4.61	5.31	5.52	4.92	5.21	4.45	4.82	5.42	5.98	4.36	4.96	5.02	3.93	6.02	5.20	7.2	16.9
STH	ng/ml	5.90	5.14		4.40	4.11		4.17	4.10		3.95	4.12		5.08	5.63		6.6	20.0
Alpha feto protein	ng/ml	5.80	5.25		5.31	5.16		4.75	5.10		3.83	4.20		4.08	4.57		7.1	21.9
FSH	U/L	5.82	5.72		5.88	5.14		4.75	5.54		4.41	4.64		4.70	5.15		7.9	21.1
PSA	ng/ml	4.17	4.28		5.08	4.67			4.56	4.39		4.04	4.44		3.3	3.4	7.0	30.0
Free PSA		4.40	4.05		4.0	4.12			4.48	4.16		4.50	4.43		3.7	4.3	4.9	25
DHEA-sulphate	µg/dl	7.24	7.01		7.59	6.93		7.38	6.54		6.65	6.35		6.84	6.81		13	13.1
IgE total	U/ml	7.11	7.14		7.36	7.75		7.10	7.42		7.04	7.27		7.60	7.90		6.7	15.0
Free T4	pmol/l	7.95	5.66	5.10	5.71	4.12	4.62	5.48	3.71	4.76	6.27	4.25	4.87	6.08	4.31	4.50	4.6	8.0
LH	U/L	5.92	5.96		6.71	6.00		5.72	5.55		4.39	5.10		5.10	5.20		7.1	27.9
ECP	ng/ml	6.37	6.21		6.26	5.02		6.01	5.06		5.94	5.18		6.23	5.75		10.6	20.0
Estradiol	pg/ml	7.55	6.62		7.98	5.89		7.06	5.81		6.56	4.76		5.67	3.95	3.84	11.1	26.8
Progesterone	nmol/l	10.91	6.64	4.71	10.2	6.53	4.64	8.57	5.35	5.31	8.00	5.61	5.29	7.58	5.43	5.58	12.5	20.0
T4	nmol/l	4.77	4.79	6.55	7.27	5.2	7.08	5.99	3.31	3.85	6.55	4.77	5.32	7.95	6.60	6.68	5.55	7.0
Prolactin	mU/L	4.76	5.45	5.65	3.28	4.53	4.38	3.10	3.90	3.83	2.79	2.25	3.97	3.41	4.45	4.4	6.6	29.4
TSH	mU/L	4.63	4.51	5.13	3.75	3.54	3.87	2.99	3.14	3.40	4.20	3.21	3.40	5.85	4.58	4.47	6.64	23.7
T3	nmol/l	8.3	7.48	5.73	9.07	7.38	7.99	8.51	6.80	5.05	7.81	6.21	4.73	7.11	5.83	5.47	3.44	12.9
SHBG	nmol/l	4.71	5.71		4.09	5.68		4.62	6.03		3.84	5.32		4.01	5.43		6.6	20.4
Tireogloblin	pmol/l	8.86	5.08	5.56	6.86	5.44	6.44	9.80	6.93	5.14	12.09	13.48		8.95	13.13		10.0	21.9
AV against tireogloblin	U/ml	8.50	7.32		8.19	8.01		7.30	6.90		6.56	7.03		6.51	6.88		11.9	27.6
C peptide	ng/ml	4.33	3.62	3.00	3.23	4.31	3.33	3.37	3.30	3.61	3.05	3.53	2.83	3.63	3.04	3.69	4.8	20.8
Free T3	pmol/l	3.12	2.83	3.33	2.98	2.05	2.77	2.70	2.45	3.00	2.79	2.32	3.03	3.10	2.22	2.71	4.05	11.3
AV against	U/ml		8.94	5.29		7.29	3.98		7.26	3.52		7.97	4.23		9.75	3.89	7.6	46.2

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		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
tireoperoxidase																		
Troponins I	ng/ml	6.92	6.46		7.01	6.11		9.1	6.61	5.78	5.70	5.20	7.54	6.84	4.91	3.67	5.3	27.9
CA-125 (OM-MA)	U/ml	4.06	3.86		4.0	4.39		3.75	3.29		3.22	3.21		3.72	2.97		5.2	38.2
CEA	ng/ml	7.0	4.85		6.7	5.05		6.80	4.05		8.50	5.26		8.36	3.92		5.5	24.7
Estriol	ng/ml	6.96	7.16		8.47	7.63		8.30	6.68		8.00	6.26		8.79	5.88		13.3	15.0
CA 15-3 (BR-MA)	U/ml	6.13	5.73		7.37	7.12		5.77	5.27		5.94	5.16		5.36	4.97		4.3	20.9
Insulin	µU/ml	4.21	4.02		5.34	4.34		3.94	3.95		4.23	3.34		3.61	2.95	4.24	7.5	32.9
Gastrin	pmol/l										6.38	6.11		7.62	4.74		9.8	20.0
CA 19-9 (GI-MA)	U/ml	6.50	6.36		5.63	5.79		7.25	7.48		9.20	8.13		8.06	5.91		8.72	39.0
HER2											5.78	5.43		6.12	5.51		5.7	
Highly sensitive CRO	mg/dl	4.63	5.49	6.20	7.26	7.13	6.07	5.22	5.73	6.24	4.01	4.12	5.24	3.74	4.43	4.62	8.7	36.54
Erythropoietin	mU/ml	6.19	4.57	4.64	5.72	4.56	4.62	4.33	4.17	4.85	4.49	4.17	3.98	3.91	4.38	4.28	9.9	30.0
IGF 1	ng/ml		8.12	6.09		7.8	5.2		7.0	5.3		5.3	4.1	6.12	5.38		7.6	24.0
Calcitonin	pg/ml	5.27	3.77		3.97	3.09		4.77	3.51		4.35	3.10		4.43	3.29		15.7	
Cortisol	nmol/l	5.03	4.33		5.44	4.17			4.86	4.48		3.79	4.28		3.79	4.28	10.5	29.8
HCG	mU/ml	6.08	5.73	6.15	5.59	6.99	5.91	6.16	5.83	6.39	5.21	4.33	6.85	6.63	6.06	5.63	7.4	20.0
DPD	nmol	12.03	7.02		11.6 2	7.76		12.10	7.04		11.40	6.92		12.97	6.89		12.0	21.9
Free HCG	ng/ml	6.89	5.88	5.08	5.96	5.49	5.53	5.34	5.36	4.73	5.20	4.76	4.11	5.19	5.60	4.44	11.3	20.0
Valproic acid	µg/ml	3.48	3.4	4.08	2.95	3.91		4.04	3.85	3.80	4.25	4.21	4.38	4.54	3.65	3.72	6.9	20.0
β2 microglobulin	mg/l	5.08	4.86	5.24	5.7	5.8	6.79	5.91	5.42	5.46	5.69	4.84	6.10	5.40	5.35	6.18	10.8	9.0
PAPP-A	IU/ml	5.73	5.50		6.41	5.11		5.62	4.88		4.83	4.66		5.73	4.79		8.5	15.1
Folic acid	ng/ml	6.45	5.93		7.72	6.13		8.07	6.79			5.66	7.25	8.6	6.4		17	39
Vitamin B12	pg/ml	4.62	4.86		5.50	5.36			4.49	4.94		4.89	5.51		5.1	3.11	7.7	30
TSH receptor antib.	IU/L	7.68	3.38		5.6	3.87			7.3	4.75		4.52	9.28		4.32	9.4	5.5	45
S-100	µg/l	3.31	3.93		2.61	2.86			3.97	4.13		3.64	3.75		4.4	4.2	3.6	30
SCC	ng/ml											6.13	5.14		5.8	5.3	2.1	30
AMH									3.12	3.65		3.33	3.71		4.14	3.7	3.8	30
Vitamin D total.	ng/ml	8.91	6.89		8.67	6.06			7.81	5.69		7.79	9.79		11.3	8.9	5.7	40
AKTH	pg/ml	4.0	3.30		4.63	3.81			3.42	2.29		3.14	3.74		2.3	2.7	5.7	20.0
Osteocalcine	ng/ml	3.21	4.54		3.77	3.68			3.24	3.36		2.8	3.12		3.0	3.2	3.2	11.2
CA72-4	U/ml	3.7	4.22		5.42	3.62			3.29	2.91		3.35	3.61		3.6	3.2	3.1	30

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		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
P1NP		5.82	6.17		5.71	5.51			4.69	3.94		4.74	4.25		4.5	4.8	4.1	30
BetaCTX		4.85	6.35		4.59	4.26			3.83	4.29		2.38	2.53		2.5	2.4	8.4	30
CYFRA	ng/ml	5.03	4.89		5.42	5.57			4.27	5.28		4.07	4.33		3.4	2.9	4.7	30
HE4									5.88	5.44		5.28	5.70		4.6	4.5	3.4	30
NSE	ng/ml	4.89	4.39		5.27	4.33			4.56	4.16		3.82	4.34		3.4	3.2	3.8	36
Anti-CCP	U/ml				5.62	4.0			4.38	4.27		2.14	6.35		8.21	3.53	1.9	45
Troponin T	ng/ml	4.32	3.65		3.42	3.48			2.88	2.78		2.79	2.76		5.0	3.3	8.6	12
Homocysteine	μmol/l	7.88	6.27		9.23	7.22	6.01	8.21	5.92		8.75	7.31		6.48	6.30	6.8		15.5
ALAT	U/L		4.0	1.8		3.9	1.8		5.0	1.9		5.2	2.5		4.5	2.0	2.7	32.1
ASAT	U/L		2.7	1.7		2.2	1.7		3.1	1.2		3.9	1.3		3.3	1.4	2.6	15.2
KFK	U/L		2.1	1.2		2.2	1.8		2.9	2.3		2.6	2.2		2.3	1.6	3.0	30.3
KFK MB group	U/L		4.9	2.5		4.9	3.2		3.9	4.3		5.3	3.5		6.3	2.5	9.2	31.2
LDH	U/L		2.3	2.0		1.7	1.7		1.8	2.1		2.2	1.8		1.9	2.3	2.5	11.4
Alkaline phosphate	U/L		4.0	2.2		6.9	2.6		6.2	2.9		4.2	3.2		4.0	3.0	3.9	11.7
Gamma GT	U/L		2.6	1.7		3.1	1.9		3.7	1.7		4.2	2.2		4.0	2.0	5.3	22.2
Alfa amylase	U/L		1.1	0.9		1.3	0.7		1.0	0.7		2.2	1.8		1.3	1.0	1.3	14.6
Amylase in urine	u/L		2.0	0.9		2.1	1.3		1.6	0.8		1.8	0.9		1.8	1.4	7.2	103.7
Creatinine	μmol/l		3.0	2.2		2.6	2.3		2.7	2.1		2.2	1.6		2.3	2.2	3.0	8.2
Creatinine in urine	μmol/l		1.6	1.4		1.9	2.0		1.4	1.1		1.7	2.0		1.7	1.6	2.0	28.4
Ethanol	g/l		4.3	3.1		5.2	3.9		3.0	3.9		5.1	2.9		3.5	2.3	3.3	4.8
Ammonia	μmol/l											9.5	3.8		4.8	2.7	5.8	29.6
ACE	U/L											5.8	4.2		5.5	5.2	8.1	
HCO3	mmol/l		5.0	4.5		5.6	4.6		5.2	4.2		5.1	4.4		4.7	5.0	3.5	5.4
Alkaline phosphate	U/L		3.6	2.8			4.1		4.2	4.0		3.6	4.1		3.1	3.2	9.2	10.3
C3	g/l		4.8	4.8		4.3	3.4		3.5	3.5		3.7	3.1		2.9	2.7	7.0	8.4
C4	g/l		5.1	4.6		5.7	4.8		4.9	3.7		5.1	3.6		3.4	2.8	5.1	16.0
Glutathione peroxidase	U/L			4.8			3.0		-	1.8		-	2.6		-	1.8	3.6	11.7
Transferrin	g/l		3.2	3.2		3.1	3.6		3.7	3.3		4.6	4.1		3.6	3.1	3.8	3.8
Cistatin C	mg/l		3.9	3.2		3.0	2.7		3.3	2.9		3.5	2.6		3.4	2.7	2.4	7.2
Albumin	g/l		1.0	0.9		0.7	0.9		0.8	1.0		2.1	1.1		0.9	0.8	2.4	3.9

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		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
Albumin in urine	mg/l		3.1	1.7		3.2	2.2		3.4	2.2		3.5	2.6		3.5	2.6	6.1	46.0
Protein in urine	mg/dl		3.9	1.6		4.0	1.9		4.0	2.0		3.1	1.0		4.0	1.5	2.9	40.0
Urea	mmol/l		1.9	1.6		2.5	2.1		2.5	2.0		2.4	2.1		2.3	1.7	1.2	15.7
LDL cholesterol	mmol/l		1.8	2.0		2.4	3.3		2.1	2.5		1.9	2.2		1.9	2.0	2.9	13.6
HDL cholesterol	mmol/l		1.1	1.6		1.9	2.0		1.7	2.3		2.2	2.2		1.8	1.8	2.6	11.1
Lp(a)	mg/dl											3.2	1.3		2.8	1.5	1.3	15.0
Glucose	mmol/l		1.4	1.3		1.6	1.6		1.4	1.3		2.8	1.3		1.6	1.4	0.9	6.9
Iron	μmol/l		2.0	1.9		2.2	1.7		1.6	1.3		1.9	2.2		1.7	1.2	2.1	30.7
Bilirubin total	μmol/l		2.6	1.9		2.9	2.0		2.8	2.0		2.4	2.1		2.1	1.8	3.2	31.1
Protein total	g/l		1.8	1.8		1.6	1.8		1.2	1.3		2.0	1.2		1.2	1.3	1.0	3.4
Uric acid	μmol/l		1.3	1.2		1.7	1.6		1.2	1.7		3.0	1.6		1.4	1.3	2.3	8.0
Uric in urine	μmol/l		4.7	3.0		3.3	3.0		2.3	1.5		2.5	1.7		2.4	2.1	5.2	28.7
Phosphate	mmol/l		2.6	1.8		2.2	1.8		3.1	2.3		3.1	1.8		2.8	1.8	2.6	7.8
Phosphate in urine	mmol/l											3.0	2.2		3.1	2.1	9.0	22.1
Calcium	mmol/l		1.7	1.6		1.8	1.8		1.7	1.7		1.7	1.6		1.6	1.4	2.4	2.4
Calcium in urine	mmol/l		1.6	1.5		2.6	2.0		1.9	1.6		2.1	1.9		2.2	2.0	2.5	34.2
ASO	vien.		2.3	1.7		3.0	2.1		3.2	2.6		2.8	2.0		2.9	1.7	3.1	20.0
IgA	mg/dl		1.9	1.6		2.0	1.8		2.4	2.1		2.4	1.8		2.1	1.3	2.8	13.5
IgM	mg/dl		2.5	2.0		3.1	1.8		1.9	1.9		3.0	1.2		3.0	1.9	4.0	16.8
CRO	mg/dl		1.7	1.2		1.6	1.3		1.2	1.3		1.2	1.0		1.3	0.8	3.5	56.6
Haptoglobin	g/l		2.2	3.8		4.2	4.1		2.7	3.8		3.1	2.9		2.4	2.7	6.8	27.3
RF	U/ml		3.9	2.5		3.8	3.5		3.2	2.6		2.4	2.2		2.7	1.7	5.8	13.5
Glycosylated Hb	%		1.7	1.8		1.9	2.2		2.2	2.1		2.3	2.3		1.5	1.5	1.7	4.3
Cholesterol	mmol/l		2.0	1.5		2.8	2.1		1.8	1.5		1.6	1.4		1.7	1.1	1.3	8.5
Triglycerides	mmol/l		3.5	2.8		2.5	2.3		2.3	2.3		2.5	1.9		2.1	1.8	2.1	27.9
Cholinesterase	U/l		2.2	2.1		4.1	4.3		2.7	3.1		5.0	4.3		2.7	3.5	2.0	8.9
IgG	mg/dl		2.6	2.2		1.7	1.9		1.6	1.5		1.2	1.1		1.3	0.9	2.7	8.0
Magnesium	mmol/l		3.3	2.0		2.7	2.1		2.9	2.1		2.3	1.8		2.9	2.0	3.2	4.8
Magnesium in urine	mmol/l		4.2	3.0		3.4	3.0		-	-		-	-				2.9	2.9
Sodium	mmol/l		0.7	0.7		1.0	0.9		0.7	1.1		0.5	0.5		0.6	0.8	1.1	0.9
Potassium	mmol/l		0.7	1.2		1.8	1.1		1.2	1.5		1.0	1.3		1.0	1.3	1.4	5.8

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		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
Chlorine	mmol/l		0.8	1.0		1.4	1.6		1.5	1.3		0.6	0.7		0.6	0.7	1.2	1.5
BNP	pg/ml		5.27	4.79		5.3	3.81		5.82	4.58		5.39	4.62		4.51	3.67	12.5	15
Cyclosporine	ng/ml	8.7		6.28	10.2		6.83	10.69		8.91	10.2	6.78	6.60	7.58		5.16	9.0	30
Erythrocytes	x10 ¹² /l	0.92	0.88	0.75	0.9	0.9	0.8	1.28	1.26	1.23	0.9	0.9	1.0	1.1	0.9	1.05	1.5	4.4
Haemoglobin	g/l	0.86	0.69	0.61	0.8	0.85	0.80	1.17	1.1	1.1	0.9	0.8	0.8	0.8	0.8	0.7	1.0	4.1
Haematocrit	%	1.18	0.98	1.13	1.12	1.2	1.02	1.8	1.5	1.5	1.5	1.5	1.5	1.3	1.04	1.1	1.5	4.1
Avg.Er volume(MCV)	fl	0.76	0.78	0.69	0.75	0.7	0.66	0.9	0.9	0.7	1.0	0.9	1.0	0.7	0.7	0.7	1.0	2.3
Avg..Hb conc.Er (MCH)	pg	1.06	0.92	0.85	1.1	1.2	0.98	1.2	0.9	0.9	1.0	0.9	0.8	1.2	0.9	0.9	2.0	2.7
Avg.Hb conc. (MCHC)	g/l	1.3	1.27	1.06	1.31	1.41	1.2	1.6	1.3	1.2	1.6	1.2	1.2	1.3	1.1	1.1	2.0	2.2
Thrombocytes	x10 ⁹ /l	6.1	3.0	1.67	3.13	6.88	2.22	7.1	2.6	1.7	6.4	2.7	1.4	7.9	2.5	1.6	6.0	13.4
Leukocytes	x10 ⁹ /l	1.98	1.52	2.0	1.71	2.20	1.26	2.0	1.6	1.4	2.1	1.6	1.2	2.1	1.5	1.3	3.0	14.6
Lymphocytes	x10 ⁹ /l	5.33	5.75	6.75	4.57	4.51	4.23	4.5	3.8	3.5	3.8	3.5	3.6	4.9	3.6	3.6	8.0	16.0
Eosinophilic	x10 ⁹ /l	7.61	7.0	7.52	7.0	8.34	7.55	7.7	6.9	7.8	7.7	7.5	7.1	9.2	9.5	7.1	25	37.1
Basophilic	x10 ⁹ /l	3.76	3.15	3.3	3.32	4.33	2.6	4.5	3.3	3.0	3.9	2.7	2.4	4.1	2.8	2.4	15.4	38.5
Neutrophilic	x10 ⁹ /l	3.6	2.61	2.77	2.91	3.07	2.35	3.5	2.7	2.4	3.4	2.8	2.1	3.6	2.7	2.1	8.0	22.4
Reticulocytes	x10 ⁹ /l	3.2	3.61	5.2	3.2	2.8	4.9	2.9	3.3	4.55	2.7	3.3	5.2	3.1	3.1	3.7	5.5	16.8
Prothrombin	%(INR)		4.3 (2.4)	2.2 (2.5)		3.3 (2.1)	2.6 (2.4)		3.2 (1.8)	3.2 (2.4)		3.4 (1.8)	3.2 (2.4)		3.2 (1.7)	2.6 (2.0)	3.5	5.3
APTL	sec		2.9	3.8		2.8	4.3		2.3	3.4		2.8	3.2		2.2	3.1	2.8	4.5
Fibrinogen	g/l		6.6	5.3		5.8	5.2		5.1	3.9		4.5	3.6		6.1	3.8	7.2	13.6
Resistance against APC	sec		5.1	-		7.2	-		9.7	-		8.1	-		6.7	-	8.9	15.0
VIII factor	%		5.7	6.6		5.1	7.9		6.1	7.3		6.3	8.0		7.2	10.4	14.0	15.0
IX factor	%		6.1	7.7		6.4	8.1		6.6	7.7		6.9	7.7		4.5	5.5	14.0	15.0
Thrombin time	sec		5.0	-		5.1	-		5.1	-		4.3	-		4.1	-	4.7	15.0
Protein C	%		4.9	1.9		3.6	3.7		7.2	5.2		4.3	6.6		4.2	4.6	4.7	18.7
Total Protein S activity	%		3.6	3.6		3.3	4.2		6.4	8.6		8.5	9.4		6.8	8.6	11.6	20.7
Free Protein S Ag	%					3.3	4.2		4.2	4.9		2.8	5.4		3.9	4.6	4.8	20.7
Antithrombin III	%		4.5	7.0		4.6	6.6		3.9	6.6		4.2	6.7		4.1	6.2	10.0	10.0

Tests	Units of measurement	2013			2014			2015			2016			2017			Target CV	Admissible total CV
		Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers	Low numbers	Average numbers	High numbers		
		CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%	CV%		
Von Willebranda fact. Ag	%		2.4	2.8		4.2	4.6		3.5	4.9		4.0	7.3		4.7	3.6	15.0	15.0
Von Willebranda fact.activity	%					4.9	3.9		7.4	6.6		7.6	6.9		5.4	4.3	15.0	15.0
D-dimers	ng/ml		5.2	5.1		5.7	4.7		5.8	5.7		5.4	5.5		4.8	4.9	7.9	15
Lupus anticoagulants	Ref.		3.8	4.0		3.6	3.8		2.6	3.0		3.1	2.8		3.2	2.5	5.0	15.0
Lipase	U/L		4.8	5.1		3.9	4.0		5.9	5.7		5.0	5.0		5.2	4.5	5.0	29.1
Direct bilirubin	µmol/l		4.2	2.3		4.2	2.4		3.0	2.0		3.3	1.5		2.4	1.7	3.4	44.5
zinc	µg/dl											5.1	5.6		4.1	4.4	2.0	11.0
Interleukin 6	pg/ml	6.73	6.84		5.11	6.06		4.16	4.68		5.59	5.18		6.41	5.69		7.2	30.0
Specific Ig E	kU/L	5.73	7.45		5.03	4.96		4.70	5.05		4.35	5.12		4.36	4.56		12.0	
Specific Ig G	kU/L	6.50	7.44		7.31	5.79		5.68	6.12		4.61	6.20		6.17	4.20		11.7	
Lactate	mmol/l		2.1	1.8		1.9	1.9		2.4	1.8		1.9	2.0		1.7	1.7	1.0	30.4
Ceruloplasmin	g/l		3.8	3.2		5.4	4.9		4.7	2.9		3.4	2.8		2.8	3.7	4.6	7.9
APOA	mg/dl		4.0	3.5		5.8	4.1		2.7	2.4		4.0	3.4		2.3	2.2	4.5	9.1
APOB	mg/dl		6.5	4.9		6.6	4.4		5.6	4.0		7.0	4.1		6.0	4.1	5.7	11.6
SF fraction of bones	µg/L		9.5	7.9		9.0	10.2		11.9	10.2		9.3	8.5				8.1	14.6
Renin	µU/mL		5.9	5.6		10.7	5.3		7.7	6.0		6.7	6.0				17.1	30.0

**Permissible uncertainties are indicated in the international interlaboratory comparative testing programmes: Lab quality (Finland), UK NEQAS (Britain), CLIA (US) requirements for analytical quality.