



Name	Male	Female	Unit
Haemoglobin (Hb) (Sysmex XN-1000)	18-40 y: 138,5-166,7 41-59 y: 131,90-168,70 from 60 y: 118,30-165,70	18-40 y: 121,30-148,70 41-59 y: 118,50-142,00 from 60 y: 115,00-141,00	g/l
Haematocrit (HCT) (Sysmex XN-1000)	18-40 y: 39,15-51,65 41-59 y: 39,06-51,27 from 60 y: 35,89-50,64	18-40 y: 34,79-44,27 41-59 y: 34,26-43,45 from 60 y: 34,04-42,48	%
Mean corpuscular volume (MCV) (Sysmex XN-1000)	18-40 y: 81,30-100,12 41-59 y: 86,50-101,79 from 60 y: 88,05-104,07	18-40 y: 81,30-100,12 41-59 y: 86,50-101,79 from 60 y: 88,05-104,07	fl
Mean corpuscular haemoglobin (MCH) (Sysmex XN-1000)	18-40 y: 26,04-33,56 41-59 y: 27,23-33,60 from 60 y: 27,75-34,52	18-40 y: 26,04-33,56 41-59 y: 27,23-33,60 from 60 y: 27,75-34,52	pg
Mean corpuscular haemoglobin concentration (MCHC) (Sysmex XN-1000)	from 18 y: 314,5-347,4	from 18 y: 305,9-337,6	g/l
Red cell distribution width (coefficient of variation) (RDW) (Sysmex XN-1000)	18-40 y: 11,22-15,56 41-59 y: 11,40-15,29 from 60 y: 11,43-13,90	18-40 y: 11,22-15,56 41-59 y: 11,40-15,29 from 60 y: 11,43-13,90	%
Platelet (PLT) (Sysmex XN-1000)	18-40 y: 165-396,2 41-59 y: 161,2-387,1 from 60 y: 125,3-359	18-40 y: 158,1-387,1 41-59 y: 153,4-370,9 from 60 y: 138,8-344,2	10 <sup>9</sup> /l
Mean platelet volume (MPV) (Sysmex XN-1000)	from 18 y: 9,10-12,60	from 18 y: 9,10-12,60	fl
Thrombocrit (PCT) (Sysmex XN-1000)	18-40 y: 0,12-0,35 41-59 y: 0,16-0,39 from 60 y: 0,14-0,34	18-40 y: 0,19-0,38 41-59 y: 0,21-0,39 from 60 y: 0,16-0,33	%
Platelet distribution width (PDW) (Sysmex XN-1000)	from 18 y: 9,3-16,7	from 18 y: 9,3-16,7	fl
Red blood cell (RBC) (Sysmex XN-1000)	18-40 y: 4,30-5,57 41-59 y: 4,24-5,65 from 60 y: 3,74-5,31	18-40 y: 3,83-4,86 41-59 y: 3,66-4,76 from 60 y: 3,61-5,00	10 <sup>12</sup> /l
White blood cell (WBC) (Sysmex XN-1000)	from 18 y: 3,89-9,23	from 18 y: 3,89-9,23	10 <sup>9</sup> /l
Neutrophils (NEU) (Sysmex XN-1000)	from 18 y: 1,78-6,04	from 18 y: 1,78-6,04	10 <sup>9</sup> /l
Lymphocyte (LYM) (Sysmex XN-1000)	18-40 y: 1,39-3,15 41-59 y: 1,24-3,05 from 60 y: 1,01-2,75	18-40 y: 1,39-3,15 41-59 y: 1,24-3,05 from 60 y: 1,01-2,75	10 <sup>9</sup> /l
Monocyte (MON) (Sysmex XN-1000)	from 18 y: 0,29-0,72	from 18 y: 0,24-0,72	10 <sup>9</sup> /l
Basophil (BAS) (Sysmex XN-1000)	from 18 y: 0,01-0,09	from 18 y: 0,01-0,09	10 <sup>9</sup> /l
Eosinophil (EOS) (Sysmex XN-1000)	from 18 y: 0,04-0,58	from 18 y: 0,01-0,59	10 <sup>9</sup> /l
Wand-nuclear neutrophils (Sysmex XN-1000)	from 18 y: 1-5	from 18 y: 1-5	%
Segmental neutrophils (Sysmex XN-1000)	from 18 y: 40,80-70,39	from 18 y: 40,80-70,39	%
Lymphocyte (Sysmex XN-1000)	from 18 y: 20,11-46,79	from 18 y: 20,11-46,79	%
Monocyte (Sysmex XN-1000)	18-40 y: 4,17-11,37 41-59 y: 4,91-10,38 from 60 y: 4,4-12,3	18-40 y: 4,03-10,57 41-59 y: 4,83-11,15 from 60 y: 4,41-10,60	%
Basophil (Sysmex XN-1000)	from 18 y: 0,20-1,50	from 18 y: 0,20-1,50	%
Eosinophil (Sysmex XN-1000)	from 18 y: 0,73-8,86	from 18 y: 0,24-10,24	%
Relative number of reticulocytes	from 18 y: 0,68-1,86	from 12 y: 0,68-1,86	%
Absolute number of reticulocytes	from 18 y: 0,034-0,102	from 18 y: 0,034-0,102	10 <sup>12</sup> /l
Immature reticulocytes	18-40 y: 2,88-15,14 41-59 y: 2,74-15,04 from 60 y: 3,45-18,87	18-40 y: 2,88-15,14 41-59 y: 2,74-15,04 from 60 y: 3,45-18,87	%
The content of hemoglobin in reticulocytes	18-40 y: 31,12-36,24 41-59 y: 31,61-36,38 from 60 y: 31,30-37,39	18-40 y: 25,69-34,77 41-59 y: 28,36-35,68 from 60 y: 29,81-36,50	pg
Delta-hemoglobin	from 18 y: 1,70-4,40	from 18 y: 1,70-4,40	pg
ESR by Westergren (Alifax, Roller 20)	before 50 y: 2-15 from 50 y: 2-20	before 50 y: 2-20 from 50 y: 2-30	mm/h

Reference values are valid from 01 January 2026 to 31 December 2026. In case of changes, we undertake to notify.



Name	Male	Female	Unit
Total protein in urine (AU 680) (daily urine intake)	0,05-0,08	0,05-0,08	g/day
Total protein in urine (AU 680) (a single dose of urine)	0,000-0,140	0,000-0,140	g/l
Glucose in urine (AU 680)	0,1-0,8	0,1-0,8	mmol/l
Glucose in urine (AU 680)	0-2,8	0-2,8	mmol/day
Microalbumin (AU 680)	0-20	0-20	mg/l
Microalbumin (AU 680)	0-30	0-30	mg/day
24 Hour Urinary Creatinine Value	124-230	97-177	µmol/kg per day
Specific gravity (SG) (iChem Velocity)	1005-1030	1005-1030	
Urine leukocytes (iChem Velocity)	negatively	negatively	cl/µl
Urine pH value (iChem Velocity)	5,5-7,5	5,5-7,5	
Urine protein (U-PRO) (iChem Velocity)	negatively	negatively	g/l
Urobilinogen (iChem Velocity)	0,1-34,0	0,1-34,0	µmol /l
Bilirubin	negatively	negatively	µmol /l
Ketones (KET) (iChem Velocity)	negatively	negatively	mmol/l
Nitrites (iChem Velocity)	negatively	negatively	
Urine occult blood (BLO) (iChem Velocity)	negatively	negatively	cl/µl
Microscopic examination of white blood cells (U-WBC) (UF II)	<27,5	<27,5	cl/µl
Microscopic examination of red blood cells (U-RBC) (UF II)	<16	<16	cl/µl
Albumin/creatinine ratio (IQ200)	0,0-2,5	0,0-3,5	mg/mmol
Erythrocytes (IQ200)	<16	<16	cell/µl
Leukocytes (IQ200)	<27,5	<27,5	cell/µl
Squamous Epithelias Cells (IQ200)	<27,5	<27,5	cell/µl
Transitional & Renal Epitelias Cells (IQ200)	<4	<4	cell/µl
Casts Others (IQ200)	<0,3	<0,3	U/µl
Hyaline Casts (IQ200)	<0,86	<0,88	U/µl
Crystals (IQ200)	<13,6	<13,6	U/µl
Slime (IQ200)	<27,5	<27,5	U/µl
Bacteria (IQ200)	<6,8	<6,8	U/µl
Yeast (IQ200)	<11	<11	U/µl
Erythrocytes modified (Microscopy)	0-1	0-1	
Erythrocytes unchanged (Microscopy)	0-1	0-1	
Leukocytes (Microscopy)	0-4	0-4	
Squamous epithelium (Microscopy)	Few,moderate, single	Few,moderate, single	
The epithelium is transitional (Microscopy)	0-4	0-4	
Renal epithelium (Microscopy)	not detected	not detected	
Hyaline cylinders (Microscopy)	not detected	not detected	
The cylinders are granular (Microscopy)	not detected	not detected	
Waxy casts (Microscopy)	not detected	not detected	
Epithelial cylinders (Microscopy)	not detected	not detected	
Fungal spores (Microscopy)	not detected	not detected	
Crystals (Microscopy)	not detected	not detected	
Bacteria (Microscopy)	not detected	not detected	

Name	Male	Female	Unit
Prothrombin time (PT) (ACL TOP 550)	9,4-12,5	9,4-12,5	sec
Prothrombin index (ACL TOP 550)	90-105	90-105	%
Prothrombin of Quick (ACL TOP 550)	70-140	70-140	%
International normalized ratio (INR) (ACL TOP 550)	0,90-1,20	0,90-1,20	
Partial thromboplastin time (APTT) (ACL TOP 550)	25,1-36,5	25,1-36,5	sec
Fibrinogen (ACL TOP 550)	2,0-4,0	2,0-4,0	g/l
D-Dimer (ACL TOP 550)	<0,243	<0,243	mg/l
Thrombin time (ACL TOP 550)	15,8-24,9	15,8-24,9	sec

Reference values are valid from 01 January 2026 to 31 December 2026. In case of changes, we undertake to notify.



Name	Male	Female	Unit
ALT (AU 680)	<50	<35	U/l
AST (AU 680)	<50	<35	U/l
Alkaline phosphatase (AU 680)	30-120	30-120	U/l
Na (Na <sup>2+</sup> ) (AU 680)	136-145	136-145	mmol/l
K (K <sup>+</sup> ) (AU 680)	3,5-5,1	3,5-5,1	mmol/l
Cl (Cl <sup>-</sup> ) (AU 680)	98-107	98-107	mmol/l
Standart bicarbonate (RAPIDPoint 500)	26-32	26-32	mmol/l
Actual bicarbonate (RAPIDPoint 500)	26-32	26-32	mmol/l
Magnesium (AU 680)	0,73-1,06	0,77-1,03	mmol/l
Calcium total (AU 680)	2,20-2,65	2,20-2,65	mmol/l
Bilirubin total (AU 680)	5-21	5-21	µmol/L
Bilirubin direct (AU 680)	<3,4	<3,4	µmol/L
Bilirubin indirect (AU 680)	0,0-19,9	0,0-19,9	µmol/L
Urea nitrogen (AU 680)	2,8-7,2	2,8-7,2	mmol/l
Creatinine (AU 680)	18-50 y: 74-110 from 50 y: 72-127	58-96	µmol/L
Glucose (AU 680)	4,1-5,9	4,1-5,9	mmol/l
Inorganic phosphorous (AU 680)	0,81-1,45	0,81-1,45	mmol/l
Albumin (AU 680)	14-60 y: 35-52 from 60 y: 34-48	14-60 y: 35-52 from 60 y: 34-48	g/l
Total protein (AU 680)	66-83	66-83	g/l
Uric Acid (AU 680)	210-420	150-350	µmol/l
Amylase (AU 680)	28-100	28-100	U/l
GGT (AU 680)	<55	<38	U/l
Cholesterol (AU 680)	3,5-6,2	3,5-6,2	mmol/l
Creatine kinase (AU 680)	≤171	≤145	U/l
C-reactive protein (AU 680)	<5	<5	mg/l
LDH (AU 680)	<248	<247	U/l
Lipase (AU 680)	0-60	0-60	U/l
Lactate (AU 680)	0,5-2,2	0,5-2,2	mmol/l
Triglyceride (AU 680)	<1,7	<1,7	mmol/l
Phosphorus (AU 680)	0,81-1,45	0,81-1,45	mmol/l
Rheumatoid factors (AU 680)	0-14	0-14	IU/ml
HDL-Cholesterol (AU 680)	>1,0	>1,2	mmol/l
Creatinekinase MB (AU 680)	0-24	0-24	U/l
ACTH (Immulite 2000XPi)	5-46	5-46	pg/ml
ANCA (microscope Eurostar II)	<1:40	<1:40	titre
CA 125 (MAGLUMI 4000 Plus)	0,6-35	0,6-35	U/ml
HCG (Architect i2000sr)	<5	<5	mIU/ml
Insulin (MAGLUMI 4000 Plus)	2,7-24,8	2,7-24,8	µIU/ml
Endogenous creatinine clearance	66-163	66-165	ml/min/1,73m <sup>2</sup>
Bile acid	2-10	2-10	µmol/l
Troponin I	0-0,29	0-0,29	ng/ml
FSH (DXI800)	1,27-19,26	Follicular phase: 3,85-8,78; Ovarian phase: 4,54-22,51; Luteal phase 1,79-5,12; Postmenopause: 16,74-113,59	mIU/ml

Reference values are valid from 01 January 2026 to 31 December 2026. In case of changes, we undertake to notify.



Name	Male	Female	Unit
TSH (Architect i2000sr)	0,4-4,0	0,4-4,0	μIU/ml
Free T4 (Architect i2000sr)	9,00-19,04	9,00-19,04	pmol/l
Total T4 (Architect i2000sr)	62,7-150,8	62,7-150,8	nmol/l
Free T3 (Architect i2000sr)	2,42-6,01	2,42-6,01	pmol/l
Total T3 (Architect i2000sr)	0,54-2,96	0,54-2,96	nmol/l
NT-proBNP (MAGLUMI 4000 Plus)	19-44 y: 0 – 88,7 45-54 y: 0 – 132,0 55-64 y: 0 – 239,0 65-74 y: 0 – 418,0 from 75 y: 0 – 911,0	19-44 y: 0 – 175,0 45-54 y: 0 – 211,0 55-64 y: 0 – 259,0 65-74 y: 0 – 435,0 from 75 y: 0 – 662,0	pg/ml

Name	Male	Female	Unit
Hepatitis B Surface Antigen (HBsAg) (ARCHITECT i2000SR)	not detected	not detected	
Anti-HBs (HBsAb) (Tecan sunrise)	<10	<10	mIU/ml
Hepatitis B E Antigen (HBeAg) (Tecan sunrise)	negatively	negatively	
Anti-HBe (HBeAb) (Tecan sunrise)	not detected	not detected	
Anti-HBc (HBcAb) (Tecan sunrise)	not detected	not detected	
Anti-Hepatitis C (HCV) Antibody (Tecan sunrise)	not detected	not detected	
HBV DNA (optional) (CFX-96)	negatively	negatively	
HCV RNA (optional) (CFX-96)	negatively	negatively	
Anti-HIV (ARCHITECT i2000SR)	not detected	not detected	
Anti-Syphilis (ARCHITECT i2000SR)	not detected	not detected	

Reference values are valid from 01 January 2026 to 31 December 2026. In case of changes, we undertake to notify.

Chief of laboratory [Signature] (Volodin O.) Date 14.01.2025



2026  
ИП [Signature]  
27.03.2025