

Analyte	Sample Type	Measuring Range [Male]	Measuring Range [Female]	Units
Adrenocorticotrophic hormone (ACTH)	Serum	0-46	0-46	pg/ml
Adiponectin	Serum	3.3-24.9	3.3-24.9	ug/ml
Albumin	Serum	35-50	35-50	g/l
Aldolase	Serum	<7.6	<7.6	u/l
Alkaline Phosphatase (ALP; AMP Method)	Serum	30-120	30-120	u/l
Alkaline Phosphatase (ALP; DEA Method)	Serum	98-279	98-279	u/l
Aspartate Aminotransferase (AST)	Serum	<37	<31	u/l
Alanine Aminotransferase (ALT)	Serum	<40	<31	u/l
Alpha-Fetoprotein (AFP)	Serum	<5.0	<5.0	KU/L
Anti-Cyclic Citrullinated Peptide (Anti-CCP) Antibodies	Serum	<7.0	<7.0	u/ml
Anti-tissue transglutaminase antibodies	Whole Blood/Serum	Positive/Negative	Positive/Negative	N/A
Apolipoprotein A-I	Serum	120-176	120-176	mg/dl
Apolipoprotein B	Serum	63-114	63-114	mg/dl
Apolipoprotein B / A-1 Ratio	NA	<1	<1	Ratio
Apolipoprotein CII	Serum	1.6-4.2	1.6-4.2	mg/dl
Apolipoprotein CIII	Serum	5.5-9.5	5.5-9.5	mg/dl
Apolipoprotein E	Serum	2.7-4.5	2.7-4.5	mg/dl
Alpha-1 Acid Glycoprotein (AGP)	Serum	0.5-1.2	0.5-1.2	g/l
Alpha-1 Antitrypsin (AAT)	Serum	0.9-2	0.9-2	g/l
Androstenedione	Serum	0.6-3.1	0.6-3.1	ng/ml
Antistreptolysin O (ASO)	Serum	<200	<200	IU/ml
Anti-Thyroglobulin Antibody (Anti-Tg)	Serum	<40.0	<40.0	IU/ml
Anti-Thyroid Peroxidase Antibody (Anti-TPO)	Serum	<35.0	<35.0	KU/L
Beta Human Chorionic Gonadotrophin (bHCG)	Serum	<1.0	<3.0	u/l
Beta-2-Microglobulin	Serum	0.9-3.0	0.9-3.0	mg/l
Brain Natriuretic Peptide (BNP)	Serum	<45 = 0.294 45-64 = 0.328 55-64 = 0.388 65-74 = 0.676 >75 = 1.21	<45 = 0.359 45-64 = 0.567 55-64 = 0.755 65-74 = 0.729 >75 = 1.67	pg/ml
Bicarbonate	Serum	22-29	22-29	mmol/l
Bile Acids	Serum	<10	<10	umol/l
Caeruloplasmin	Serum	200-600	200-600	mg/l
Calcitonin	Serum	<8.4	<5.0	ng/l
Calprotectin	FOB	<50 = Negative	<50 = Negative	ug/g
Calcium	Serum	2.2-2.6	2.2-2.6	mmol/l
Calcium (adjusted)	Serum	2.2-2.6	2.2-2.6	mmol/l
Cancer Antigen 19-9 (CA 19-9)	Serum	<18.3	<18.7	KU/L
Cancer Antigen 15-3 (CA 15-3)	Serum	-	<28.0	KU/L
Cancer Antigen 12-5 (CA 12-5)	Serum	-	<21.0	KU/L
Carcinoembryonic Antigen (CEA)	Serum	<3.4	<2.5	ug/l
Chloride	Serum	95-108	95-108	mmol/l
Copper	Serum	11-24	12.6-24.4	umol/l
C-peptide	Serum	300-2350	300-2350	pmol/l
Complement 3	Serum	Age 0-40 = 0.8-1.6, Age 40+ = 0.9-1.7	Age 0-40 = 0.8-1.6, Age 40+ = 0.9-1.7	g/l
Complement 4	Serum	Age 0-30 = 0.15-0.43, Age 30-40 = 0.16-0.46, Age 40+ = 0.18-0.49	Age 0-30 = 0.15-0.43, Age 30-40 = 0.16-0.46, Age 40+ = 0.18-0.49	g/l
Cortisol	Serum	AM 138-690, PM 69-345	AM 138-690, PM 69-345	nmol/l
Creatine Kinase	Serum	40-320	25-200	u/l
Creatine Kinase-MB (CK-MB)	Serum	<5.0	<5.0	ug/l
Creatinine	Serum	Age 0-15 = 53-97, Age 16+ = 53-97	Age 0-15 = 44-80, Age 16+ = 44-80	umol/l
Creatinine	Urine	480-45000	480-45000	umol/l
Cystatin C	Serum	0.57-1.05	0.57-1.05	mg/l
Dehydroepiandrosterone Sulphate (DHEAS)	Serum	2.2-15.2	1-11.7	umol/l
Direct Bilirubin	Serum	<1.4	<4	umol/l
Estimated Sedimentation Rate (ESR)	Whole Blood	Age 1-5 = <10.0, Age 5-16 = <12.0, Age 16-71 = <14.0, Age 71+ = <30.0	Age 1-5 = <12.0, Age 5-16 = <19.0, Age 16-71 = <20.0, Age 71+ = <30.0	mm/hr
Estimated Glomerular Filtration Rate (eGFR)	Calculation	<60	<60	ml/min
Free Androgen Index (FAI)	Calculation	14.8-94.8	0-20.6	Ratio
Free PSA	Serum	Dependent on Total PSA	NA	ug/l
Ferritin	Serum	20-300	10-120	ug/l
Folic acid	Serum	>5.4	>5.4	ug/l
Follicle Stimulating Hormone (FSH)	Serum	0.7-11.1	Follicular Phase: 2.8-11.3, Follicular Phase days 2-3: 3.0-14.4 Luteal phase: 1.2-9.0, Midcycle: 5.8-21, Oral contraceptives: 4.9, Perimenstrual ± 8days <12.0, Post menopausal (ERT): 21.7-153	IU/l
Free Beta-Human Chorionic Gonadotropin (hCG)	Serum	<2.0	<2.0	ng/ml
Free Triiodothyronine (FT3)	Serum	2.8-6.5	2.8-6.5	pmol/l
Free Thyroxine (FT4)	Serum	11.5-22.7	11.5-22.7	pmol/l
Gastrin (Total)	Serum	6-55	6-55	pmol/l
Gamma Glutamyltransferase (GGT)	Serum	10-71	8-42	u/l
Globulin	Serum	23-35	23-35	g/l
Glucose	Plasma	4-6	4-6	mmol/l
Glutamate Dehydrogenase (GLDH)	Serum	<7.0	<5.0	u/l
Glutathione Reductase (GR)	Serum	>33.0	>33.0	u/l
Growth Hormone	Serum	<1	<10	IU/ml
H. pylori	Serum	<0.9	<0.9	IU/ml
Haptoglobin	Serum	0.4-2.4	0.4-2.4	g/l
HbA1c	Whole Blood	<48.0	<48.0	mmol/mol
HDL Cholesterol	Serum	>1.55	>1.55	mmol/l
Heart-type Fatty Acid Binding Protein (H-FABP)	Serum	<9.1	<9.1	ng/ml
High Sensitivity C-Reactive Protein (hsCRP)	Serum	<1.0	<1.0	mg/l
Homocysteine	Plasma	3.7-13.9	3.7-13.9	umol/l
Immunoglobulin A (IgA)	Serum	0.9-4.5	0.9-4.5	g/l
Immunoglobulin G (IgG)	Serum	8-18	8-18	g/l
Immunoglobulin M (IgM)	Serum	0.6-2.5	0.7-2.8	g/l
Immunoglobulin E (IgE)	Serum	<100	<100	KU/L
Insulin-like growth factor 1 (IGF-1)	Serum	Age 0-26 = 15.1-46.5, Age 26-31 = 15.2-42.8, Age 31-36 = 15-39.9, Age 36-41 = 14.2-36.9, Age 41-46 = 13.1-34.7, Age 46-51 = 12.2-32.8, Age 51-56 = 11.3-30.9, Age 56-61 = 10.5-29.3, Age 61-66 = 9.8-27.6, Age 66-71 = 9.26, Age 71-76 = 8.3-24.4, Age 76-81 = 7.7-23, Age 81-200 = 7.2-21.6	Age 0-26 = 15.1-46.5, Age 26-31 = 15.2-42.8, Age 31-36 = 15-39.9, Age 36-41 = 14.2-36.9, Age 41-46 = 13.1-34.7, Age 46-51 = 12.2-32.8, Age 51-56 = 11.3-30.9, Age 56-61 = 10.5-29.3, Age 61-66 = 9.8-27.6, Age 66-71 = 9.26, Age 71-76 = 8.3-24.4, Age 76-81 = 7.7-23, Age 81-200 = 7.2-21.6	nmol/l
Inhibin-A	Serum	<1-3.58	Early Follicular Phase: 5.46-28.16, Mid Follicular Phase: 7.87-34.54, Late Follicular Phase: 19.49-102.28, Early Luteal phase: 35.93-132.68, Mid Luteal phase: 13.15-159.55, Late Luteal phase: 7.28-89.55, Midcycle: 49.92-155.48, IVF Peak: 35.4-1169.00, PCOS-Ovulatory 5.65-15.99, Post menopausal: <1-3.88	pg/ml
Insulin	Serum	20.8-173.6	20.8-173.6	pmol/l
Iron	Serum	11-28	7-26	umol/l
Lactate Dehydrogenase (LDH)	Serum	230-460	230-460	u/l
LDL Cholesterol	Serum	<3.0	<3.0	mmol/l
Lipase	Serum	5.6-51.3	5.6-51.3	u/l
Lipoprotein (a)	Serum	<300	<300	mg/l
Luteinising Hormone (LH)	Serum	0.8-7.6	Follicular Phase: 1.1-11.6, Luteal phase: <14.7, Midcycle: 17-77, Oral contraceptives: <8.0, Perimenstrual ±8days <12.0, Post menopausal: 11.3-39.8	IU/l
Magnesium	Serum	0.7-1.1	0.7-1.1	mmol/l
Microalbumin	Urine	<30	<30	mg/l
Microalbumin/Creatinine Ratio	Urine	<30	<30	mg/mmol
Myoglobin	Serum	<110	<110	ug/l
Non-Esterified Fatty Acids	Serum	<0.9	<0.9	mmol/l
Oestradiol	Serum	<206	Females: <1468 Follicular phase: ≤587 Follicular days 2-3: ≤308 Luteal Phase: 101 - 905) Oral Contraceptives (90%): ≤374 Periovulatory ± 3 days: 124 - 1468 Post-Menopausal, treated (90%): ≤341 Post-Menopausal, untreated (90%): ≤110	pmol/l
Pancreatic Amylase (PAMY)	Serum	13-53	13-53	MIU/l
Pregnancy-Associated Plasma Protein A (PAPP-A)	Serum	N/A	Maternal <180 mg/dL	MIU/ml
Parathyroid Hormone (PTH)	Serum	1.3-6.8	1.3-6.8	pmol/l
Phosphate	Serum	0.8-1.5	0.8-1.5	mmol/l
Potassium	Serum	3.5-5.3	3.5-5.3	mmol/l
Prolactin	Serum	53-360	40-530	MIU/l
Progesterone	Serum	0.86-2.86	Follicular Phase: <3.6, Luteal phase: <5.5-6, Midcycle: 1.5-5.5, Oral contraceptives: <1.1-2.9, Midfollicular days 5 to 11: <3.1, Midluteal phase: 19.1-76.3 Post menopausal: <3-2	nmol/l
Ransel	Whole Blood	4171-10881	4171-10881	UI
Renin	Serum	7.54-42.30	7.54-42.30	pg/ml
Rheumatoid Factor (RF)	Serum	<12.5	<12.5	KU/L
Sex Hormone Binding Globulin (SHBG)	Serum	10-57	18-144	nmol/l
Small LDL Cholesterol	Serum	Age 0-45 = <60.8, Age 45+ = <64.4	Age 0-55 = <60.8, Age 55+ = <64.4	mg/dl
Sodium	Serum	133-146	133-146	mmol/l
Total Antioxidant Status (TAS)	Serum	>1.3	>1.3	mmol/l
Total Bilirubin	Serum	<2.1	<2.1	umol/l
Total Cholesterol	Serum	<5	<5	mmol/l
Total Cholesterol / HDL Cholesterol Ratio	Serum	<5	<5	Ratio
Total Iron Binding Capacity (TIBC)	Serum	44.8-80.6	44.8-80.6	umol/l
Total Human Chorionic Gonadotropin (hCG)	Serum	N/A	Gestational Week 1.3-2: 16-156 Gestational Week 2-3: 101-4870 Gestational Week 3-4: 1110-31500 Gestational Week 4-5: 2560-82300 Gestational Week 5-6: 23100-151000 Gestational Week 6-7: 27300-23300 Gestational Week 7-11: 20900-291000 Gestational Week 11-16: 6140-103000 Gestational Week 16-21: 4720-80100 Gestational Week 21-39: 2700-78100	UI
Total Protein	Serum	64-83	64-83	g/l
Thyroid Stimulating Hormone (TSH)	Serum	0.4-4	0.4-4	MIU/l
Total Triiodothyronine (TT3)	Serum	84-172	84-172	ng/dl
Total Thyroxine (TT4)	Serum	58-161	58-161	nmol/l
Thyroid Uptake	Serum	24-35	24-35	%
Testosterone	Serum	Age 0-51 = 5.6-25.2, Age 51+ = 4.5-26.6	<2.5	nmol/l
Thyroglobulin	Serum	<55	<55	ug/l
Total PSA	Serum	Age <60: <3.0 Age 60-70: <4.0 Age >70: <5.0	NA	ug/l
Transferrin	Serum	2-3.8	2-3.8	g/l
Transferrin Saturation	NA	20-50	15-50	%
Triglycerides	Serum	<2.3	<2.3	mmol/l
Tropoin I	Serum	<40	<40	ng/l
Urea	Serum	2.5-7.8	2.5-7.8	mmol/l
Uric Acid	Serum	200-430	140-360	umol/l
Unconjugated Estriol (UE3)	Serum	NA	Gestational Week 27 23-64 Gestational Week 28 23-70 Gestational Week 29 23-27 Gestational Week 30 24-8.6 Gestational Week 31 2.6-9.9 Gestational Week 32 2.8-11.4 Gestational Week 33 3.0->12.0 Gestational Week 34 3.3->12.0 Gestational Week 35 3.9->12.0 Gestational Week 36 4.7->12.0 Gestational Week 37 5.6->12.0 Gestational Week 38 6.6->12.0 Gestational Week 39 7.3->12.0 Gestational Week 40 7.6->12.0	ng/ml
Vitamin B12	Serum	246-911	246-911	ng/l
Vitamin D	Serum	Toxic >250 Sufficiency 75-250 Insufficiency 50-75 Deficiency <50	Toxic >250 Sufficiency 75-250 Insufficiency 50-75 Deficiency <50	nmol/l
Zinc	Plasma	11.1-19.5	10.7-17.5	umol/l
<b>Full Blood Count</b>				
Haemoglobin	Whole Blood	130-180	115-165	g/l
Haematocrit	Whole Blood	40-54	37-47	%
Mean Cell Haemoglobin (MCH)	Whole Blood	27-32	27-32	pg
Mean Cell Haemoglobin Concentration (MCHC)	Whole Blood	320-360	320-360	g/l
Red Blood Cell Mean Cell Volume (MCV)	Whole Blood	76-100	76-100	fl
Red Blood Cell Count	Whole Blood	4.5-6.5	3.8-5.8	IOE12-L
White Blood Cell Count	Whole Blood	4.0-10.0	4.0-10.0	IOE9-L
Platelet Count	Whole Blood	150-450	150-450	IOE9-L
Basophil Count	Whole Blood	0.01-0.1	0.01-0.1	IOE9-L
Eosinophil Count	Whole Blood	0.04-0.4	0.04-0.4	IOE9-L
Neutrophil Count	Whole Blood	2-7.5	2-7.5	IOE9-L
Monocyte Count	Whole Blood	0.2-0.8	0.2-0.8	IOE9-L
Lymphocyte Count	Whole Blood	1-3.5	1-3.5	IOE9-L
<b>Urinalysis</b>				
Urine Bilirubin	Urine	neg	neg	N/A
Urine Glucose	Urine	neg	neg	N/A
Urine Ketones	Urine	neg	neg	N/A
Urine Nitrite	Urine	neg	neg	N/A
Urine pH	Urine	5-7.5	5-7.5	N/A
Urine Protein	Urine	neg	neg	N/A
Urine Red Blood Cells (RBCs)	Urine	neg	neg	N/A
Urobilinogen	Urine	neg	neg	N/A
Urine White Blood Cells (WBCs)	Urine	neg	neg	leu/l
<b>CTK HS Array</b>				
IL-2	Serum	<2.42	<2.42	pg/ml
IL-2	Plasma	0.69-2.22	0.69-2.22	pg/ml
IL-4	Serum	<2.63	<2.63	pg/ml
IL-4	Plasma	0.82-2.98	0.82-2.98	pg/ml
IL-6	Serum	<2.13	<2.13	pg/ml
IL-6	Plasma	<2.21	<2.21	pg/ml
IL-8	Serum	0.95-14.11	0.95-14.11	pg/ml
IL-8	Plasma	0.05-6.70	0.05-6.70	pg/ml
IL-10	Serum	<0.105	<0.105	pg/ml
IL-10	Plasma	0.14-1.08	0.14-1.08	pg/ml
IL-1α	Serum	<0.27	<0.27	pg/ml
IL-1α	Plasma	0.02-0.27	0.02-0.27	pg/ml
IL-1β	Serum	<0.234	<0.234	pg/ml
IL-1β	Plasma	<2.65	<2.65	pg/ml
TNF-α	Serum	2.28-7.81	2.28-7.81	pg/ml
TNF-α	Plasma	1.47-5.93	1.47-5.93	pg/ml
IFN-γ	Serum	<1.24	<1.24	pg/ml
IFN-γ	Plasma	0.03-0.58	0.03-0.58	pg/ml
MCP-1	Serum	45-396	45-396	pg/ml
EGF	Plasma	12.98-136.18	12.98-136.18	pg/ml
EGF	Serum	54.197	54.197	pg/ml
EGF	Plasma	<113.58	<113.58	pg/ml
VEGF	Serum	<21.20	<21.20	pg/ml
VEGF	Plasma	<56.17	<56.17	pg/ml
<b>CTK III Array</b>				
IL5	Serum	<1.49	<1.49	pg/ml
IL15	Serum	0.89-2.02	0.89-2.02	pg/ml
GM-CSF	Serum	<1.46	<1.46	pg/ml
MIP1A	Serum	<8.98	<8.98	pg/ml
<b>CTK IV Array</b>				
SIL2A	Serum	<0.19	<0.19	ng/ml
SIL2A	Plasma	0.01-0.20	0.01-0.20	ng/ml
SIL6R	Serum	<3.53	<3.53	ng/ml
SIL6R	Plasma	0.09-3.76	0.09-3.76	ng/ml
STNFR1	Serum	0.14-0.54	0.14-0.54	ng/ml
STNFR1	Plasma	0.11-0.48	0.11-0.48	ng/ml
STNFR1I	Serum	<0.32	<0.32	ng/ml
STNFR1I	Plasma	0.03-0.42	0.03-0.42	ng/ml
MMP9	Serum	38.4-214.1	38.4-214.1	ng/ml
MMP9	Plasma	5.43-60.65	5.43-60.65	ng/ml
<b>CTK V Array</b>				
IL3	Serum	<9.54	<9.54	