



FINAL REPORT

PID:

Sample Date: **01/02/2023 (15:52)**

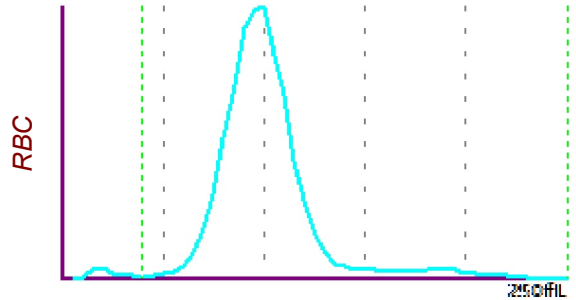
Received: **01/02/2023 (15:52)**

Report: **01/02/2023 (16:46)**

Sample: WHOLE BLOOD (EDTA)

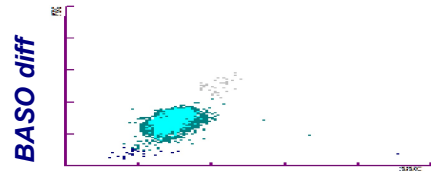
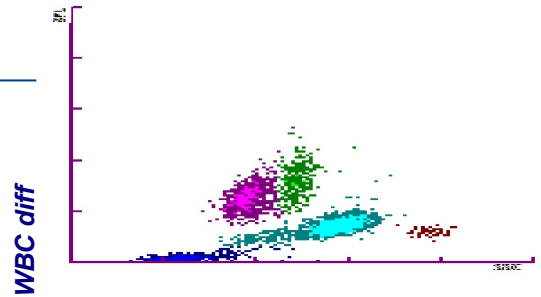
FULL BLOOD COUNT

RED BLOOD CELLS	Result	Reference Intervals
RBC	: 4.11 10 ¹² /L	3.80 - 5.29
HGB	: 122 g/L	112 - 154
HCT	: 0.378 L/L	0.338 - 0.454
MCV	: 92.0 fL	79.3 - 95.6
MCH	: 29.7 pg/cell	26.3 - 32.5
MCHC	: 323 g/L	318 - 354
RDW-SD	: 48.2 fl	35.4 - 45.5
RDW-CV	: 14.7 %	11.5 - 15.0

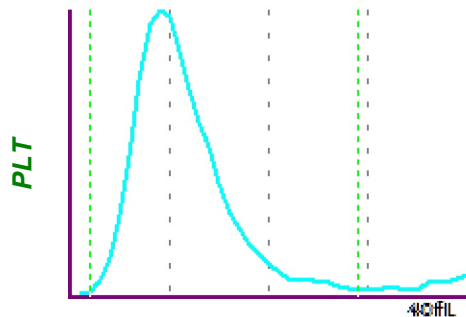


WHITE BLOOD CELLS	Result	Reference Intervals
WBC	: 4.42 10 ⁹ /L	3.00 - 10.00

WBC Differential	R.I.	#	R.I.
NEUT%	: 58.4 %	2.58 10 ⁹ /L	2.00 - 7.50
LYM%	: 26.5 %	1.17 10 ⁹ /L	1.20 - 3.65
MONO%	: 12.4 %	0.55 10 ⁹ /L	0.20 - 1.00
EOS%	: 2.0 %	0.09 10 ⁹ /L	0.00 - 0.40
BASO%	: 0.7 %	0.03 10 ⁹ /L	0.00 - 0.10



PLATELETS	Result	Reference Intervals
PLT	: 271 10 ⁹ /L	150 - 400
MPV	: 10.4 fl	7.0 - 13.0
PDW	: 12.0 fl	9.2 - 16.7
PCT	: 0.28 %	0.15 - 0.35
P-LCR	: 28.4 %	16.0 - 41.3



REMARKS

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BIOCHEMISTRY

Test	Result	Reference Intervals	
Glucose	: 4.45 mmol/L	3.90 - 5.50	Serum
* Glycated hemoglobin (HbA1c)	: 5.45 %	4.80 - 5.90	Whole Blood
Iron	: 16.6 umol/L	5.8 - 34.5	Serum
Total cholesterol	: * 6.64 mmol/L	< 5.17	Serum
Triglycerides	: 0.62 mmol/L	< 1.71	Serum
HDL-cholesterol	: * 2.52 mmol/L	1.03 - 1.55	Serum
* LDL-cholesterol (calculated)	: * 3.83 mmol/L	< 2.58	
Alkaline phosphatase (ALP)	: 64 U/L	35 - 104	Serum
Aspartate aminotransferase (AST)	: * 68 U/L	< 32	Serum
Alanine aminotransferase (ALT)	: * 123 U/L	< 33	Serum
Gamma-glutamyltransferase (GGT)	: 14 U/L	5 - 36	Serum
Total protein	: * 63.8 g/L	64.0 - 83.0	Serum
Albumin	: 44.3 g/L	35.0 - 52.0	Serum
* Globulin (calculated)	: 19.5 g/L	19.0 - 35.0	
Total bilirubin	: 6.3 umol/L	< 15.0	Serum
Direct bilirubin	: 2.7 umol/L	< 5.0	Serum
* Indirect bilirubin (calculated)	: 3.6 umol/L	< 10.0	
Sodium	: * 132 mmol/L	136 - 145	Serum
Potassium	: 4.2 mmol/L	3.5 - 5.1	Serum
Chloride	: * 97 mmol/L	98 - 107	Serum
Urea	: 4.3 mmol/L	3.5 - 7.2	Serum
Creatinine	: 56 umol/L	44 - 80	Serum
* eGFR (MDRD)	: 99 mL/min/1.73m ²	>90 Please refer to www.renal.org	
Uric acid	: 156 umol/L	143 - 339	Serum
Calcium	: 2.26 mmol/L	2.20 - 2.55	Serum
Phosphate (inorganic)	: 1.39 mmol/L	0.81 - 1.45	Serum
Magnesium	: 0.80 mmol/L	0.66 - 0.99	Serum

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BIOCHEMISTRY

Test	Result	Reference Intervals	
Lactate dehydrogenase (LDH)	: 200 U/L	135 - 214	Serum
C-reactive protein (CRP)	: 0.7 mg/L	< 5.0	Serum
* C-reactive protein high-sensitivity (hsCRP)	: 0.54 mg/L	<5.0	Serum
		CVD relative risk: <1.0 low 1.0-3.0 average >3.0 high	
Bicarbonate	: 23.1 mmol/L	22.0 - 29.0	Serum
* Anion gap (calculated)	: 16 mmol/L		

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ENDOCRINOLOGY

Test	Result	Reference Intervals	
Thyroid-stimulating hormone (TSH)	: * 4.530 mIU/L	0.270 - 4.200	Serum
Free triiodothyronine (fT3)	: * 2.86 pmol/L	3.74 - 6.11	Serum
Free thyroxine (fT4)	: 19.0 pmol/L	11.5 - 19.6	Serum
Triiodothyronine (T3)	: * 1.07 nmol/L	1.30 - 3.10	Serum
Thyroxine (T4)	: 121.8 nmol/L	66.0 - 181.0	Serum
Thyroid peroxidase antibodies (anti-TPO)	: * 41 IU/mL	< 34	Serum
Thyroglobulin antibodies (anti-TG)	: 10 IU/mL	< 115	Serum
Progesterone (PRG)	: 0.32 ng/mL	Cycle Phase: Follicular: <0.05-0.193 Ovulation: 0.055-4.14 Luteal: 4.11-14.5 Postmenopause: <0.05-0.126 Cycle Sub-phase: Early follicular: <0.05-0.323 Intermediate follicular: <0.05-0.22 Late follicular: <0.05-0.216 Ovulation: <0.05-2.35 Early luteal: 2.36-15.1 Intermediate luteal: 4.76-20.9 Late luteal: 0.537-13.5 Healthy pregnant women: 1st trimester: 11-44.3 2nd trimester: 25.4-83.4 3rd trimester: 58.7-214	Serum

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ENDOCRINOLOGY

Test	Result	Reference Intervals	
Estradiol (E2)	: 6.0 pg/mL	Cycle Phase: Follicular: 30.9-90.4 Ovulation: 60.4-533 Luteal: 60.4-232 Postmenopause: <5-138 Cycle Sub-phase: Early follicular: 20.5-62.8 Intermediate follicular: 26-79.8 Late follicular: 49.5-233 Ovulation: 60.4-602 Early luteal: 51.1-179 Intermediate luteal: 66.5-305 Late luteal: 30.2-222 Healthy pregnant women: 1st trimester: 154-3243 2nd trimester: 1561-21280 3rd trimester: 8525->30000	Serum
Testosterone	: * <0.09 nmol/L	0.10 - 1.42	Serum
Sex hormone binding globulin (SHBG)	: * >200.0 nmol/L	27.1 - 128.0	Serum
Dehydroepiandrosterone sulfate (DHEA-S)	: 44.0 µg/dL	9.4 - 246.0	Serum
C-peptide	: * 1.0 ng/mL	1.1 - 4.4	Serum
Insulin	: 4.2 µU/mL	2.6 - 24.9	Serum
Vitamin D (25-OH)	: 50.9 ng/mL	Deficiency ≤20 Insufficiency 21-29 Desired level =>30	Serum
* Homocysteine	: 7.2 umol/L	0 - 20 Folate nonsupplemented.	Serum

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HAEMATOLOGY

Test	Result	Reference Intervals	
* ESR	: 15 mm/h	< 30	Whole Blood
* UIBC	: 46.8 umol/L	24.2 - 70.1	Serum
* TIBC (calculated)	: 63.4 umol/L	41.0 - 77.0	Serum
* Transferrin	: 2.91 g/L	2.00 - 3.60	Serum
* Vitamin B12	: * 1288 pg/mL	197 - 771	Serum
Ferritin	: 29.5 ng/mL	15.0 - 150.0	Serum
* Fibrinogen	: 3.58 g/L	2.00 - 4.00	Plasma
Folate	: 13.9 ng/mL	3.1 - 20.5	Serum

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