

SMALL, SAVANNAH
1 PITTA PLACE, THORNILE. 6155

Phone: 0447076290

Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842

Your Reference: 00185330 Lab Reference: 25-27720853-HOR-0

Laboratory: AUSTRALIAN CLINICAL LABS

Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: HORMONES ,REPRODUCTIVE

Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
21:09

ENDOCRINOLOGY

SPECIMEN: SERUM

HORMONE STUDIES

Date: 19/05/25
Coll. Time: 10:10
Lab Number: 27720853

FSH	7	IU/L
LH	18	IU/L
Oestradiol	787	pmol/L
Progesterone	3	nmol/L

ADULT REFERENCE RANGES:

	F.S.H.	L.H.	OESTRADIOL	PROGESTERONE#
Postmenopausal	23 - 116	16 - 54	< 120	< 1.0
Follicular phase	3 - 10	2 - 13	70 - 530	< 5.0
Midcycle peak	4 - 34	9 - 77	230-1300	
Luteal phase	2 - 9	< 17	200- 790	10.0 - 70.0
Day 21 (midluteal) #				> 30.0
# Equivocal 15.0-30.0; Luteal Phase Deficiency < 15.0				
Pregnant	< 2	< 2		

Please note that progesterone levels in patients taking DHEA may be falsely increased due to an assay interference.

TESTS COMPLETED: FAI, B12, ESR, FBE, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP, GLU, INS, OH, TFT, FT4,
INCOMPLETE TESTS: GHB,

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Phone: 0447076290

Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842

Your Reference: 00185330 Lab Reference: 25-27720853-TMA-0

Laboratory: AUSTRALIAN CLINICAL LABS

Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: TFT MASTER PANEL

Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
21:09

ENDOCRINOLOGY

THYROID FUNCTION TEST**SPECIMEN: SERUM**

Date: 19/05/25 17/09/24 21/06/24
Coll. Time: 10:10 08:50 09:40
Lab Number: 27720853 21962822 88868178

Free T4	15.1	12.8	14.3	(9.0 - 25.0) pmol/L
TSH	3.32	3.32 *	5.91	(0.40 - 4.00) mIU/L
Free T3		5.2		(3.5 - 6.5) pmol/L

27720853 Previous raised TSH and positive thyroid antibodies.
Euthyroid levels.

TESTS COMPLETED: FAI, B12, ESR, FBE, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP,
GLU, INS, OHG, TFT, FT4,
INCOMPLETE TESTS: GHB,

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Phone: 0447076290

Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842

Your Reference: 00185330 Lab Reference: 25-27720853-OHD-0

Laboratory: AUSTRALIAN CLINICAL LABS

Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: VITAMIN D

Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
21:09

BIOCHEMISTRY**VITAMIN D****SPECIMEN: SERUM**

Date	Time	Lab No.	25-hydroxy Vitamin D	
19/05/25	10:10	27720853	77	(50 - 200) nmol/L
21/06/24	09:40	88868178	51	

27720853 Vitamin D is within normal limits.

Interpretation:

Vitamin D deficiency <50 nmol/L

Severe deficiency <20 nmol/L

COMMENT: Vitamin D sufficiency is defined as greater than or equal to
50 nmol/L at the end of winter (level may need to be 10-20 nmol/L higher
at the end of summer).

Reference: Position Statement. Vitamin D and Health in Adults in
Australia and New Zealand. MJA,196(11): 686-687, 2012.

TESTS COMPLETED: FAI, B12, ESR, FBE, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP,
GLU, INS, OHG, TFT, FT4,
INCOMPLETE TESTS: GHB,

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Phone: 0447076290
Birthdate: 01/08/1999 **Sex:** F **Medicare Number:** 62454386842
Your Reference: 00185330 **Lab Reference:** 25-27720853-AGN-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL **Referred by:** DR SELVARANI PERUMAL

Name of Test: ANDROGEN STUDIES
Requested: 05/05/2025 **Collected:** 19/05/2025 **Reported:** 19/05/2025
20:57

ENDOCRINOLOGY

ANDROGEN STUDIES

SPECIMEN: SERUM

Date: 19/05/25
Time: 10:10
Lab Number: 27720853

Testosterone	1.5	nmol/L (0.3 - 1.8)
SHBG re-std.	82	nmol/L (15 - 100)
FAI re-std.	1.8	% See table
Free Testost.	14	pmol/L (7 - 48)

27720853 Within normal limits.

Interim Reference Ranges:

	Pre menopausal	Post menopausal	Units
FAI re-std.	0.4 - 8.0	0.4 - 8.0	%

Please note from 19-2-2024: new reference intervals apply for testosterone and SHBG testing, due to a change in method to the Siemens Atellica assay.

TESTS COMPLETED: FAI, B12, ESR, FBE, IS, LIP, ECU, LFT, CRP, GLU, INS,
INCOMPLETE TESTS: LFH, OST, PRG, GHB, OHD, TFT, FT4,

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Birthdate: 01/08/1999 **Sex:** F **Medicare Number:** 62454386842
Your Reference: 00185330 **Lab Reference:** 25-27720853-INS-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL **Referred by:** DR SELVARANI PERUMAL

Name of Test: INSULIN
Requested: 05/05/2025 **Collected:** 19/05/2025 **Reported:** 19/05/2025
20:56

ENDOCRINOLOGY

INSULIN STUDIES**SPECIMEN: SERUM**

Date	Time	Lab No.	Insulin	Ref Range	Units
19/05/25	10:10	27720853	6	(See below)	mU/L

Insulin Reference Ranges:

Fasting	2 - 12 mU/L
2hr post prandial	5 - 30 mU/L

TESTS COMPLETED: FAI, B12, ESR, FBE, IS, LIP, ECU, LFT, CRP, GLU, INS,
INCOMPLETE TESTS: LFH, OST, PRG, GHB, OHD, TFT, FT4,

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Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842

Your Reference: 00185330 Lab Reference: 25-27720853-MBI-0

Laboratory: AUSTRALIAN CLINICAL LABS

Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: MULTIPLE BIOCHEM ANALYSIS

Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
20:37**GENERAL CHEMISTRY****SPECIMEN: SERUM**

Date:	19/05/25	21/06/24
Coll. Time:	10:10	09:40
Lab Number:	27720853	88868178

Sodium	142	137	(135 - 145)	mmol/L
Potassium	4.4	4.2	(3.5 - 5.2)	mmol/L
Chloride	106	104	(95 - 110)	mmol/L
Bicarbonate	29	28	(22 - 32)	mmol/L
Anion Gap	11	9	(9 - 19)	mmol/L
Urea	3.7	5.1	(3.0 - 7.0)	mmol/L
Creatinine	73	78	(45 - 90)	umol/L
eGFR	> 90	> 90	(> 59) mL/min/1.73m2	
T.Protein	69	75	(60 - 80)	g/L
Albumin	41	43	(35 - 50)	g/L
Globulin	28	32	(23 - 39)	g/L
ALP	53	69	(30 - 110)	U/L
Bilirubin	6	8	(3 - 20)	umol/L
GGT	< 7	< 7	(5 - 35)	U/L
AST	25	26	(5 - 30)	U/L
ALT	22	20	(5 - 35)	U/L

27720853 Electrolytes, liver and renal function within normal limits.

TESTS COMPLETED: B12, ESR, FBE, IS, LIP, ECU, LFT, CRP, GLU,
INCOMPLETE TESTS: FAI, LFH, OST, PRG, GHB, INS, OHD, TFT, FT4,

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Birthdate: 01/08/1999 **Sex:** F **Medicare Number:** 62454386842
Your Reference: 00185330 **Lab Reference:** 25-27720853-CRP-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL **Referred by:** DR SELVARANI PERUMAL

Name of Test: C-REACTIVE PROTEIN
Requested: 05/05/2025 **Collected:** 19/05/2025 **Reported:** 19/05/2025
20:36

BIOCHEMISTRY

C REACTIVE PROTEIN (CRP)

SPECIMEN: SERUM

Date	Time	Lab No.	CRP	Units	Ref. Range
19/05/25	10:10	27720853	0.9	mg/L	(< 3.0)
21/06/24	09:40	88868178	0.8		

In the setting of infection, CRP levels >100 mg/L are supportive of bacterial rather than viral aetiology.

Note results from this CRP assay should not be used for cardiac risk assessment. Please request the high sensitivity assay (hsCRP) instead.

TESTS COMPLETED: B12, ESR, FBE, IS, LIP, ECU, LFT, CRP, GLU,
INCOMPLETE TESTS: FAI, LFH, OST, PRG, GHB, INS, OHD, TFT, FT4,

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Birthdate: 01/08/1999 **Sex:** F **Medicare Number:** 62454386842
Your Reference: 00185330 **Lab Reference:** 25-27720853-ISM-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL **Referred by:** DR SELVARANI PERUMAL

Name of Test: IRON MASTER
Requested: 05/05/2025 **Collected:** 19/05/2025 **Reported:** 19/05/2025
20:20

BIOCHEMISTRY

IRON STUDIES

SPECIMEN: SERUM

Date:	19/05/25	17/09/24	21/06/24	
Coll. Time:	10:10	08:50	09:40	
Lab Number:	27720853	21962822	88868178	
Iron	18.8	29.0	16.0	(10.0 - 30.0) umol/L
Transferrin	2.18	2.54	2.84	(2.10 - 3.80) g/L
Saturation	34 *	46	23	(15 - 45) %
Ferritin	167 *	28	25	(30 - 200) ug/L

27720853 Previous iron deficiency noted. Iron studies are within normal limits.

TESTS COMPLETED: B12, ESR, FBE, IS, LIP, GLU,
INCOMPLETE TESTS: FAI, LFH, OST, PRG, ECU, LFT, CRP, GHB, INS, OHD, TFT, FT4,

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Phone: 0447076290
Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842
Your Reference: 00185330 Lab Reference: 25-27720853-BFM-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: B12, FOLATE (SERUM/RBC)
Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
20:20

BIOCHEMISTRY

VITAMIN B12 AND FOLATE

SPECIMEN: SERUM/BLOOD

Date: 19/05/25 21/06/24
Time: 10:10 09:40
Lab Number: 27720853 88868178

Vitamin B12	384	340		pmol/L
Active B12		> 146	(> 30)	pmol/L

27720853 Normal B12 result.

RANGES	B12	Serum Folate
Normal	> 180	> 10.0
Equivocal	150 - 180	5.0 - 10.0
Deficient	< 150	< 5.0

TESTS COMPLETED: B12, ESR, FBE, IS, LIP, GLU,
INCOMPLETE TESTS: FAI, LFH, OST, PRG, ECU, LFT, CRP, GHB, INS, OHD, TFT, FT4,

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Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842
Your Reference: 00185330 Lab Reference: 25-27720853-LS-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: LIPID STUDIES
Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
20:20

BIOCHEMISTRY

LIPID STUDIES

SPECIMEN: SERUM

Date: 19/05/25 21/06/24

Coll. Time:	10:10	09:40	Desirable Range	
Lab Number:	27720853	88868178	(Fasting)	
Fasting Status	Fasting	Random		
Total Chol.	3.7	5.1	(< 5.6)	mmol/L
HDL Chol.	1.2	1.5	(> 1.1)	mmol/L
LDL Chol.	2.0	3.0	(< 3.1)	mmol/L
Non-HDL Chol.	2.5	3.6	(< 4.1)	mmol/L
Triglyceride	1.1	1.4	(< 2.1)	mmol/L
LDL/HDL Ratio	1.7	2.0		
Chol/HDL Ratio	3.1	3.4		

27720853 Interpretation of lipid profile in this age group depends on family and personal history of vascular disease and risk factors.

Please note, from 27/09/2023, modified lipid reference ranges apply.

Recommended targets for high risk patients are

Total cholesterol < 4.0 mmol/L
HDL Cholesterol > 1.0 mmol/L
LDL Cholesterol < 2.5 mmol/L (< 1.8 mmol/L for very high risk)
Non-HDL Cholesterol < 3.3 mmol/L (< 2.5 mmol/L for very high risk)
Fasting triglycerides < 2.0 mmol/L

Lipid ranges and targets are from the AACB Guideline for Harmonised Lipid Reporting (2018)

Target values need to be individualised based on clinical assessment of overall risk.

See the AusCVD Risk calculator at www.cvdcheck.org.au

TESTS COMPLETED: B12, ESR, FBE, IS, LIP, GLU,
INCOMPLETE TESTS: FAI, LFH, OST, PRG, ECU, LFT, CRP, GHB, INS, OHD, TFT, FT4,

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Phone: 0447076290
Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842
Your Reference: 00185330 Lab Reference: 25-27720853-GLU-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: GLUCOSE
Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
19:49

BIOCHEMISTRY

GLUCOSE

Date	Time	Lab#	Collection Type	Specimen	Glucose (mmol/L)
19/05/25	10:10	27720853	Fasting	fl-ox	4.0
21/06/24	09:40	88868178	Random	serum	3.4

27720853 Normal fasting glucose.

NOTE: HbA1c has been requested.

Glucose Reference Ranges

Random 3.0 - 6.9 mmol/L
 Fasting 3.0 - 5.4 mmol/L
 1 Hour post prandial 3.0 - 11.0 mmol/L
 2 Hour post prandial 3.0 - 7.7 mmol/L

Specimen Legend:

Fl-ox = Fluoride oxalate, serum = Serum, np = Non-Preserved

TESTS COMPLETED: ESR, FBE, GLU,
 INCOMPLETE TESTS: FAI, B12, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP, GHB, INS,
 OHD, TFT,

SMALL, SAVANNAH
 1 PITTA PLACE, THORNILE. 6155
 Phone: 0447076290
 Birthdate: 01/08/1999 Sex: F Medicare Number: 62454386842
 Your Reference: 00185330 Lab Reference: 25-27720853-HAE-0
 Laboratory: AUSTRALIAN CLINICAL LABS
 Addressee: DR SELVARANI PERUMAL Referred by: DR SELVARANI PERUMAL

Name of Test: HAEMATOLOGY GENERAL
 Requested: 05/05/2025 Collected: 19/05/2025 Reported: 19/05/2025
 19:37

HAEMATOLOGY

SPECIMEN: WHOLE BLOOD

Date:	19/05/25	17/09/24	21/06/24	(#Refers to current
Coll. Time:	10:10	08:50	09:40	result only)
Lab Number:	#27720853	21962822	88868178	
HAEMOGLOBIN	133	133	143 (115 - 165)	g/L
RBC	4.33	4.46	4.77 (3.80 - 5.50)	x10 ¹² /L
HCT	0.40	0.41	0.44 (0.35 - 0.47)	
MCV	92	93	93 (80 - 99)	fL
MCH	30.7	29.8	30.0 (27.0 - 34.0)	pg
MCHC	334	320	324 (310 - 360)	g/L
RDW	11.9	12.1	12.3 (11.0 - 15.0)	%
WCC	7.5	9.4	6.8 (4.0 - 11.0)	x10 ⁹ /L
Neutrophils	4.4	6.1	3.7 (2.0 - 8.0)	x10 ⁹ /L
Lymphocytes	2.4	2.4	2.4 (1.0 - 4.0)	x10 ⁹ /L
Monocytes	0.5	0.8	0.5 (< 1.1)	x10 ⁹ /L
Eosinophils	< 0.1	0.0	< 0.1 (< 0.7)	x10 ⁹ /L
Basophils	< 0.1	< 0.1	< 0.1 (< 0.3)	x10 ⁹ /L
PLATELETS	231	271	283 (150 - 450)	x10 ⁹ /L
MPV	11.2	*	10.7 (7.1 - 11.2)	fL
ESR	5	11.7	5 (< 21)	mm/h

#27720853 : The red cell, white cell and platelet parameters are within normal limits.

TESTS COMPLETED: ESR, FBE, GLU,
 INCOMPLETE TESTS: FAI, B12, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP, GHB, INS,
 OHD, TFT,

SMALL, SAVANNAH

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Phone: 0447076290
Birthdate: 01/08/1999 **Sex:** F **Medicare Number:** 62454386842
Your Reference: 00185330 **Lab Reference:** 25-27720853-GHB-0
Laboratory: AUSTRALIAN CLINICAL LABS
Addressee: DR SELVARANI PERUMAL **Referred by:** DR SELVARANI PERUMAL

Name of Test: GLYCATED HB
Requested: 05/05/2025 **Collected:** 19/05/2025

BIOCHEMISTRY

HAEMOGLOBIN A1c

SPECIMEN: WHOLE BLOOD

Coll. Date: 19/05/25 21/06/24
Coll. Time: 10:10 09:40
Lab Number: 27720853 88868178

IFCC HbA1c	32	32	mmol/mol
DCCT HbA1c	5.1	5.1	%
Av. Glucose (eAG)	5.5	5.5	mmol/L

27720853 HbA1c consistent with euglycaemic state.

Please note that Hb A1c results may be influenced by conditions affecting red cells or their survival times such as haemoglobinopathies, anaemias, recent transfusion or blood loss.

TESTS COMPLETED: FAI, B12, ESR, FBE, LFH, OST, PRG, IS, LIP, ECU, LFT, CRP, GLU, GHB, INS, OHD, TFT, FT4,