

Pathology Clinical Trials - Trial Specific Reference Ranges 2025

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16 September 2025	30 September 2025	Ryan Bolger Scientist In Charge	<i>R Bolger</i> Electronically signed by: R Bolger Reason: I approve this document Date: Sep 16, 2025 11:27:17 GMT +10

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
HAEMATOLOGY									
6690-2	White Cell Count (WCC) (Leucocytes)	x10^9/L	Whole Blood	M/F	0 Days	1 Day	9.0	30.0	
				M/F	1 Day	3 Days	9.4	34.0	
				M/F	3 Days	1 Week	5.0	25.0	
				M/F	1 Week	2 Weeks	5.0	21.0	
				M/F	2 Weeks	2 Months	5.0	19.5	
				M/F	2 Months	2 Years	6.0	18.0	
				M/F	2 Years	4 Years	6.0	17.0	
				M/F	4 Years	6 Years	5.5	15.5	
				M/F	6 Years	8 Years	5.0	14.5	
				M/F	8 Years	15 Years	4.5	13.5	
789-8	Red Cell Count (RCC) (Erythrocytes)	x10^12/L	Whole Blood	M/F	15 Years	16 Years	4.5	11.0	
				M/F	> 16 Years	-	4.0	12.0	
				M/F	0 Days	1 Day	4.2	6.6	
				M/F	1 Day	1 Week	4.0	6.6	
				M/F	1 Week	2 Weeks	3.9	6.3	
				M/F	2 Weeks	1 Month	3.6	6.2	
				M/F	1 Month	2 Months	3.0	5.4	
				M/F	2 Months	3 Months	2.7	4.9	
				M/F	3 Months	6 Months	3.1	4.5	
				M/F	6 Months	2 Years	3.7	5.3	
				M/F	2 Years	6 Years	3.9	5.3	
				M/F	6 Years	16 Years	4.0	5.2	
718-7	Haemoglobin (Hb)	g/L	Whole Blood	M	16 Years	60 Years	4.2	5.9	
				F	> 16 Years	-	3.6	5.2	
				M	> 60 Years	-	3.8	5.7	
				M/F	0 Days	1 Day	145	240	
				M/F	1 Day	1 Week	145	225	
				M/F	1 Week	2 Weeks	135	215	
				M/F	2 Weeks	1 Month	125	205	
				M/F	1 Month	2 Months	100	180	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
				M/F	2 Months	3 Months	90	140	
				M/F	3 Months	6 Months	95	135	
				M/F	6 Months	2 Years	105	135	
				M/F	2 Years	6 Years	110	140	
				M/F	6 Years	12 Years	115	155	
				M/F	12 Years	16 Years	120	160	
				M	16 Years	60 Years	130	170	
				M	> 60 Years	-	120	170	
4544-3	Haematocrit (Hct) (Packed Cell Volume)	L/L	Whole Blood	F	> 16 Years	-	115	155	
				M/F	0 Days	1 Day	0.45	0.70	
				M/F	1 Day	1 Week	0.45	0.67	
				M/F	1 Week	2 Weeks	0.42	0.66	
				M/F	2 Weeks	1 Month	0.39	0.63	
				M/F	1 Month	2 Months	0.31	0.55	
				M/F	2 Months	3 Months	0.28	0.42	
				M/F	3 Months	6 Months	0.29	0.41	
				M/F	6 Months	2 Years	0.33	0.41	
				M/F	2 Years	6 Years	0.34	0.42	
				M/F	6 Years	12 Years	0.35	0.45	
				M/F	12 Years	16 Years	0.36	0.46	
787-2	Mean Cell/Corpuscular Volume (MCV)	fL	Whole Blood	M	16 Years	60 Years	0.36	0.50	
				M	> 60 Years	-	0.36	0.50	
				F	> 16 Years	-	0.33	0.45	
				M/F	0 Days	3 Days	100	120	
				M/F	3 Days	1 Week	95	120	
				M/F	1 Week	2 Weeks	90	110	
				M/F	2 Weeks	2 Months	85	110	
				M/F	2 Months	3 Months	80	110	
				M/F	3 Months	6 Months	75	100	
				M/F	6 Months	2 Years	70	90	
				M/F	2 Years	6 Years	75	90	
				M/F	6 Years	12 Years	77	95	
785-6	Mean Cell Haemoglobin (MCH)	pg	Whole Blood	M/F	12 Years	15 Years	78	97	
				M/F	15 Years	16 Years	80	97	
				M/F	> 16 Years	-	80	99	
				M/F	0 Days	1 Week	31	37	
				M/F	1 Week	2 Months	28	40	
				M/F	2 Months	3 Months	26	34	
				M/F	3 Months	2 Years	23	31	
				M/F	2 Years	6 Years	24	30	
				M/F	6 Years	12 Years	25	33	
				M/F	12 Years	15 Years	25	35	
786-4	Mean Cell Haemoglobin Concentration (MCHC)	g/L	Whole Blood	M/F	15 Years	16 Years	27	34	
				M/F	> 16 Years	-	26	34	
				M/F	0 Years	16 Years	320	360	
788-0	Red Cell Distribution Width (RDW)	%	Whole Blood	M/F	> 16 Years	-	315	365	
				M/F	0 Years	16 Years	11.0	14.0	
777-3	Platelet Count	x10^9/L	Whole Blood	M/F	> 16 Years	-	11.6	14.0	
32623-1	Mean Platelet Volume (MPV)	fL	Whole Blood	M/F	> 0 Years	-	150	400	
751-8	Neutrophils (Absolute Count)	x10^9/L	Whole Blood	M/F	> 0 Years	-	7.0	12.0	
				M/F	0 Days	1 Day	3.5	18.0	
				M/F	1 Day	3 Days	3.5	18.0	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
				M/F	3 Days	2 Weeks	1.5	10.0	
				M/F	2 Weeks	6 Months	1.0	9.0	
				M/F	6 Months	2 Years	1.0	8.5	
				M/F	2 Years	6 Years	1.5	8.5	
				M/F	6 Years	12 Years	1.5	8.0	
				M/F	12 Years	15 Years	1.8	8.0	
				M/F	15 Years	16 Years	2.0	8.0	
731-0	Lymphocytes (Absolute Count)	x10^9/L	Whole Blood	M/F	> 16 Years	-	2.0	8.0	
				M/F	0 Days	3 Days	2.0	11.5	
				M/F	3 Days	1 Week	2.0	10.0	
				M/F	1 Week	2 Weeks	2.0	8.0	
				M/F	2 Weeks	2 Months	2.5	9.0	
				M/F	2 Months	2 Years	4.0	10.0	
				M/F	2 Years	4 Years	3.0	9.5	
				M/F	4 Years	6 Years	2.0	8.0	
				M/F	6 Years	8 Years	1.5	7.0	
				M/F	8 Years	12 Years	1.5	6.5	
				M/F	12 Years	15 Years	1.2	5.2	
				M/F	15 Years	16 Years	1.2	3.6	
742-7	Monocytes	x10^9/L	Whole Blood	M/F	> 16 Years	-	1.0	3.5	
				M/F	0 Days	1 Day	0.2	3.4	
				M/F	1 Day	1 Week	0.7	3.8	
				M/F	1 Week	2 Weeks	0.2	2.4	
				M/F	2 Weeks	2 Months	0.2	1.2	
				M/F	2 Months	16 Years	0.1	1.0	
711-2	Eosinophils	x10^9/L	Whole Blood	M/F	> 16 Years	-	0.2	1.0	
				M/F	0 Days	1 Day	-	1.5	
				M/F	1 Day	1 Week	-	2.0	
				M/F	1 Week	2 Weeks	-	1.0	
				M/F	2 Weeks	6 Years	-	0.8	
704-7	Basophils	x10^9/L	Whole Blood	M/F	> 6 Years	-	-	0.5	
				M/F	0 Days	1 Week	-	0.3	
				M/F	1 Week	1 Month	-	0.2	
4679-7	Reticulocytes	x10^9/L	Whole Blood	M/F	> 1 Month	-	-	0.2	
				M/F	0 Days	1 Week	100	250	
				M/F	1 Week	2 Months	5	50	
				M/F	2 Months	6 Months	8	80	
				M/F	6 Months	16 Years	10	100	
4537-7	Erythrocyte Sedimentation Rate (ESR)	mm in 1 Hour	Whole Blood	M/F	> 16 Years	-	20	100	
89312-3	CD3+ Lymphocytes (Absolute Number)	x10^9/L	Whole Blood	M/F	≥ 0 Years	-	1	20	
				M/F	0 Days	6 Months	2.50	5.60	
				M/F	6 Months	1 Year	1.90	5.90	
				M/F	1 Year	2 Years	2.10	6.20	
				M/F	2 Years	6 Years	1.40	3.70	
				M/F	6 Years	12 Years	1.20	2.60	
				M/F	12 Years	18 Years	1.00	2.20	
24467-3	CD3/4+ Lymphocytes (Absolute Number)	x10^9/L	Whole Blood	M/F	> 18 Years	-	1.09	3.02	
				M/F	0 Days	6 Months	1.80	4.00	Also known as 'Helper T Cells'
				M/F	6 Months	1 Year	1.40	4.30	
				M/F	1 Year	2 Years	1.30	3.40	
				M/F	2 Years	6 Years	0.70	2.20	

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				M/F	6 Years	12 Years	0.65	1.50	
				M/F	12 Years	18 Years	0.53	1.30	
				M/F	> 18 Years	-	0.65	2.00	
14135-8	CD3/8+ Lymphocytes (Absolute Number)	x10^9/L	Whole Blood	M/F	0 Days	6 Months	0.59	1.60	Also known as 'Cytotoxic T Cells' or 'T Suppressor'
				M/F	6 Months	1 Year	0.50	1.70	
				M/F	1 Year	2 Years	0.62	2.00	
				M/F	2 Years	6 Years	0.49	1.30	
				M/F	6 Years	12 Years	0.37	1.10	
				M/F	12 Years	18 Years	0.33	0.92	
8116-6	CD19+ Lymphocytes (Absolute Number)	x10^9/L	Whole Blood	M/F	> 18 Years	-	0.33	1.31	
				M/F	0 Days	6 Months	0.43	3.00	
				M/F	6 Months	1 Year	0.61	2.60	
				M/F	1 Year	2 Years	0.72	2.60	
				M/F	2 Years	6 Years	0.39	1.40	
				M/F	6 Years	12 Years	0.27	0.86	
20402-4	CD16/56+ Lymphocytes (Absolute Number)	x10^9/L	Whole Blood	M/F	12 Years	18 Years	0.11	0.57	
				M/F	> 18 Years	-	0.19	0.55	
				M/F	0 Days	6 Months	0.17	0.83	
				M/F	6 Months	1 Year	0.16	0.95	
				M/F	1 Year	2 Years	0.18	0.92	
				M/F	2 Years	6 Years	0.13	0.72	
				M/F	6 Years	12 Years	0.10	0.48	
				M/F	12 Years	18 Years	0.07	0.48	
				M/F	> 18 Years	-	0.13	0.54	

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COAGULATION									
6301-6	International Normalised Ratio (INR)	Ratio	Blood (Plasma)	M/F	The INR should only be applied to patients receiving anticoagulant therapy and is not valid in any other clinical situations (RCPA manual 2001). For patients not on warfarin, no reference range or normal range for INR is available. The INR is a ratio and is specifically set up for warfarin patients, who instead have a therapeutic range, which is individualised depending on various clinical factors. Prothrombin time (PT) is a better indication for coagulation in this setting, for which we do provide a normal range for PT, as we do for our other routine coagulation tests APTT and fibrinogen. Please contact PathTrials@austin.org.au if this is not sufficient, and your enquiry will be triaged.				
5902-2	PT (Prothrombin Time)	seconds	Blood (Plasma)	M/F	0 Days	1 Day	12	24	Not on anticoagulant therapy
					> 1 Day	-	11	15	
14979-9	APTT (Activated Partial Thromboplastin Time)	seconds	Blood (Plasma)	M/F	> 16 Years	-	22	38	Not on anticoagulant therapy
3255-7	Fibrinogen (Clauss)	g/L	Blood (Plasma)	M/F	0 Days	3 Days	1.2	3.8	
					3 Days	1 Month	1.5	4.0	
					1 Month	1 Year	0.8	3.8	
					1 Year	16 Years	1.5	4.3	
48065-7	D-Dimer	ng/ml	Blood (Plasma)	M/F	> 16 Years	-	2.0	4.0	
					≥ 0 Years	-	-	500	

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BIOCHEMISTRY									
2951-2	Sodium (Na)	mmol/L	Blood (Serum)	M/F	0 Days	6 Days	132	147	
				M/F	7 Days	≤ 18 Years	132	147	
				M/F	> 18 Years	-	135	145	
2823-3	Potassium (K)	mmol/L	Blood (Serum)	M/F	0 Days	6 Days	3.8	6.5	
				M/F	7 Days	≤ 6 Months	4.2	6.7	
				M/F	> 6 Months	< 2 Years	3.9	5.6	
				M/F	≥ 2 Years	18 Years	3.6	5.3	
				M/F	> 18 Years	-	3.5	5.2	
2075-0	Chloride (Cl)	mmol/L	Blood (Serum)	M/F	0 Days	6 Days	98	115	
				M/F	7 Days	≤ 18 Years	97	110	
				M/F	> 18 Years	-	95	110	
1963-8	Bicarbonate (HCO3)	mmol/L	Blood (Serum)	M/F	0 Days	6 Days	15	28	
				M/F	7 Days	< 2 Years	16	29	
				M/F	≥ 2 Years	10 Years	17	30	
				M/F	10 Years	18 Years	20	32	
				M/F	> 18 Years	-	22	32	
22664-7	Urea	mmol/L	Blood (Serum)	M/F	0 Years	3 Years	2	6	
				M/F	3 Years	13 Years	3	6	
				M/F	13 Years	19 Years	3	8	
				M	19 Years	50 Years	3	7	
				M	> 50 Years	-	3	9	
				F	19 Years	50 Years	2.50	6.70	
				F	> 50 Years	-	3.50	7.20	
14682-9	Creatinine	umol/L	Blood (Serum)	M/F	0 Days	6 Days	22	93	
				M/F	7 Days	27 Days	17	50	
				M/F	28 Days	< 2 Years	11	36	
				M/F	2 Years	6 Years	20	44	
				M/F	6 Years	12 Years	27	58	
				M	12 Years	15 Years	35	83	
				M	15 Years	19 Years	50	100	
				M	> 19 Years	-	60	110	
				F	12 Years	15 Years	35	74	
				F	15 Years	19 Years	38	82	
62238-1	Estimated Glomerular Filtration Rate (eGFR)	mL/min/1.73m ²	Blood (Serum)	M/F	≥ 0 Years	-	90	-	Calculated by CKD-EPI Formula
6768-6	Alkaline Phosphatase (ALP)	U/L	Blood (Serum)	M/F	0 Days	≤ 6 Days	80	380	
				M/F	> 7 Days	≤ 27 Days	120	550	
				M/F	> 28 Days	≤ 6 Months	120	650	
				M/F	> 6 Months	< 2 Years	120	450	
				M/F	2 Years	6 Years	120	370	
				M/F	6 Years	10 Years	120	440	
				M	10 Years	14 Years	130	530	
				M	14 Years	15 Years	105	480	
				M	15 Years	17 Years	80	380	
				M	17 Years	19 Years	50	220	
				M	19 Years	22 Years	45	150	
				M	> 22 Years	-	30	110	
				F	10 Years	13 Years	100	460	
				F	13 Years	14 Years	70	330	
				F	14 Years	15 Years	50	280	
				F	15 Years	16 Years	45	170	
				F	16 Years	22 Years	35	140	

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1743-4	Alanine Aminotransferase (ALT)	U/L	Blood (Serum)	F	> 22 Years	-	30	110	
				M/F	0 Years	1 Year	6	51	
				M/F	1 Year	13 Years	11	30	
				M	13 Years	18 Years	10	33	
				M	> 18 Years	-	6	40	
				F	13 Years	18 Years	8	24	
30239-8	Aspartate Transaminase (AST)	U/L	Blood (Serum)	F	> 18 Years	-	6	35	
				M/F	0 Days	≤ 14 Days	23	186	
				M/F	> 15 Days	< 1 Year	23	83	
				M/F	1 Year	7 Years	26	55	
				M/F	7 Years	12 Years	22	41	
				M	12 Years	18 Years	18	40	
				M	> 18 Years	-	6	35	
				F	12 Years	18 Years	17	33	
2324-2	Gamma Glutamyl Transferase (GGT)	U/L	Blood (Serum)	F	> 18 Years	-	6	30	
				M/F	0 Days	≤ 14 Days	23	219	
				M/F	> 15 Days	< 1 Year	8	127	
				M/F	≥ 1 Year	11 Years	6	16	
				M/F	11 Years	18 Years	7	21	
				M	> 18 Years	-	5	50	
14631-6	Total Bilirubin	μmol/L	Blood (Serum)	F	> 18 Years	-	5	35	
				M/F	0 Days	< 1 Day	-	102.6	
				M/F	≥ 1 Day	< 2 Days	-	171.0	
				M/F	≥ 2 Days	< 5 Days	-	205.2	
				M/F	≥ 5 Days	< 7 Days	-	171.0	
				M/F	≥ 7 Days	≤ 18 Years	-	20.0	
14630-8	Indirect Bilirubin (Unconjugated)	μmol/L	Blood (Serum)	M/F	> 18 Years	-	-	20.0	
				M/F	≥ 0 Years	-	-	18	Calculated parameter
14629-0	Direct Bilirubin (Conjugated)	μmol/L	Blood (Serum)	M/F	0 Days	≤ 14 Days	5.7	12.0	
				M/F	> 15 Days	≤ 1 Year	-	5.0	
				M/F	1 Year	9 Years	-	3.0	
				M/F	9 Years	13 Years	-	5.0	
				M	13 Years	18 Years	1.9	7.0	
				F	13 Years	18 Days	1.7	7.0	
1751-7	Albumin	g/L	Blood (Serum)	M/F	> 18 Years	-	-	9.0	
				M/F	0 Days	≤ 4 Days	28	44	
				M/F	> 5 Days	15 Years	38	54	
				M/F	15 Years	60 Years	35	50	
				M/F	60 Years	90 Years	32	46	
2885-2	Total Protein	g/L	Blood (Serum)	M/F	> 90 Years	-	29	45	
				M/F	0 Days	< 7 Days	46	70	
				M/F	≥ 7 Days	≤ 6 Months	44	76	
				M/F	> 7 Months	≤ 1 Year	51	73	
				M/F	> 1 Year	2 Years	56	75	
10834-0	Globulins	g/L	Blood (Serum)	M/F	> 2 Years	-	60	80	
				M/F	≥ 0 Years	-	25	40	Calculated parameter
14804-9	Lactate Dehydrogenase (LD)	U/L	Blood (Serum)	M/F	0 Days	≤ 14 Days	309	1222	
				M/F	> 15 Days	< 1 Year	120	250	
				M/F	≥ 1 Year	-	120	250	
1798-8	Amylase	U/L	Blood (Serum)	M/F	0 Years	1 Year	5	65	
				M/F	1 Year	70 Years	25	125	
				M/F	> 70 Years	-	20	160	
3040-3	Lipase	U/L	Blood (Serum)	M/F	0 Years	18 Years	4	39	
				M/F	> 18 Years	-	10	60	

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2000-8	Calcium	mmol/L	Blood (Serum)	M/F	0 Days	≤ 6 Days	1.85	2.80	
				M/F	> 7 Days	≤ 181 Days	2.20	2.80	
				M/F	> 182 Days	< 2 Years	2.20	2.70	
				M/F	≥ 2 Years	18 Years	2.20	2.65	
				M/F	> 18 Years	-	2.10	2.60	
14879-1	Phosphate (Inorganic Phosphate)	mmol/L	Blood (Serum)	M/F	0 Days	≤ 6 Days	1.25	2.85	
				M/F	> 7 Days	≤ 27 Days	1.50	2.75	
				M/F	> 28 Days	≤ 6 Months	1.45	2.50	
				M/F	> 6 Months	< 1 Year	1.30	2.30	
				M/F	≥ 1 Year	4 Years	1.10	2.20	
				M/F	4 Years	15 Years	0.90	2.00	
				M/F	15 Years	18 Years	0.80	1.85	
				M/F	18 Years	20 Years	0.75	1.65	
				M/F	> 20 Years	-	0.75	1.50	
2601-3	Magnesium	mmol/L	Blood (Serum)	M/F	0 Days	≤ 6 Days	0.60	1.00	
				M/F	> 7 Days	≤ 18 Years	0.65	1.10	
				M/F	> 18 Years	-	0.70	1.10	
2524-7	Lactate	mmol/L	Blood (Plasma)	M/F	≥ 0 Years	-	0.5	2.2	
1988-5	C-Reactive Protein	mg/L	Blood (Serum)	M/F	≥ 0 Years	-	-	5.0	
14933-6	Uric Acid	mmol/L	Blood (Serum)	M/F	0 Days	≤ 14 Days	0.17	0.75	
				M/F	> 15 Days	≤ 1 Year	0.09	0.37	
				M/F	> 1 Year	3 Years	0.11	0.29	
				M/F	3 Years	5 Years	0.12	0.29	
				M/F	5 Years	9 Years	0.11	0.30	
				M/F	9 Years	11 Years	0.14	0.32	
				M/F	11 Years	13 Years	0.15	0.34	
				M	> 13 Years	-	0.22	0.45	
2157-6	Creatinine Kinase	U/L	Blood (Serum)	F	> 13 Years	-	0.15	0.37	
				M	≥ 0 Years	< 18 Years	-	170	
				F	≥ 0 Years	< 18 Years	-	145	
				M	≥ 18 Years	< 60 Years	45	250	
				M	≥ 60 Years	-	40	200	
89579-7	Troponin I (High Sensitivity)	ng/L	Blood (Serum)	F	≥ 18 Years	-	30	150	
				M	≥ 0 Years	-	-	26	
-	Troponin T	-	Not performed at Austin Health Pathology. See "Troponin I (High Sensitivity)"						
	Creatinine Kinase Isoenzymes (CK-MB/CK-MM)	-	Not performed at Austin Health Pathology						
14749-6	Glucose - Random	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	3.0	7.7	
14749-6	Glucose - Fasting	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	3.0	5.4	
59261-8	Glycated Haemoglobin (HbA1c)	%	Blood (Plasma)	M/F	≥ 0 Years	-	-	6.5	DCCT/NGSP Units
	Non Diabetic-diagnostic cut off for diabetes	mmol/mol		M/F	≥ 0 Years	-	-	48	IFCC Units
59261-8	Glycated Haemoglobin (HbA1c)	%	Blood (Plasma)	M/F	≥ 0 Years	-	-	7.0	DCCT/NGSP Units
	Diabetic - target for good glycaemic control	mmol/mol		M/F	≥ 0 Years	-	-	53	IFCC Units
2857-1	Prostate Specific Antigen (PSA)	µg/L	Blood (Serum)	M	0 Years	50 Years	-	2.5	
				M	50 Years	60 Years	-	3.5	
				M	60 Years	65 Years	-	4.5	
				M	65 Years	70 Years	-	5.5	
				M	> 70 Years	-	-	6.5	
24108-3	Cancer Antigen 19-9 (CA 19-9)	U/mL	Blood (Serum)	M/F	≥ 0 Years	-	-	37	
10334-1	Cancer Antigen 125 (CA 125)	U/mL	Blood (Serum)	M/F	≥ 0 Years	-	-	35	
6875-9	Cancer Antigen 15-3 (CA 15-3)	U/mL	Blood (Serum)	M/F	≥ 0 Years	-	-	30	
2039-6	Carcino Embryonic Antigen (CEA)	µg/L	Blood (Serum)	M/F	≥ 0 Years	-	-	5	
1834-1	Alphafoetoprotein (AFP)	kU/L	Blood (Serum)	M/F	≥ 0 Years	-	-	8.78	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
6771-0	Alpha-1-Antitrypsin	g/L	Blood (Serum)	M/F	≥ 0 Years	-	-	2	
21198-7	Beta - Human Chorionic Gonadotropin (β-HCG)	IU/L	Blood (Serum)	M/F	≥ 0 Years	-	-	5	
11579-0	Thyroid Stimulating Hormone (TSH) (Thyrotropin)	mU/L	Blood (Serum)	M/F	≥ 4 Days	< 6 Months	0.73	4.77	
				M/F	≥ 6 Months	< 1 Year	0.70	4.17	
				M/F	≥ 1 Year	14 Years	0.70	4.17	
				M/F	14 Years	18 Years	0.47	3.41	
				M/F	> 18 Years	-	0.40	4.90	
14920-3	Free Thyroxine (FT4)	pmol/L	Blood (Serum)	M/F	≥ 0 Years	-	9	19	
14928-6	Free Tri-iodothyronine (FT3)	pmol/L	Blood (Serum)	M/F	≥ 0 Years	-	2.4	6.0	
14685-2	Vitamin B12	pmol/L	Blood (Serum)	M/F	≥ 0 Years	-	138	652	
72160-5	Active B12 (Holotranscobalamin)	pmol/L	Blood (Serum)	M/F	≥ 0 Years	-	25	165	
14732-2	Serum Folate	nmol/L	Blood (Serum)	M/F	≥ 0 Years	-	7	46	
14665-4	Copper	nmol/L	Blood (Serum)	M/F	≥ 0 Years	-	7	46	
2064-7	Caeruloplasmin	g/L	Blood (Serum)	M/F	≥ 0 Years	-	0.2	0.6	
33958-0	Vitamin D (25OH)	nmol/L	Blood (Serum)	M/F	≥ 0 Years	-	75	-	
14798-3	Iron Concentration	µmol/L	Blood (Serum)	M/F	≥ 0 Years	14 Years	2.9	22.9	
				M	14 Years	19 Years	5.5	30.1	
				M	> 19 Years	-	11.6	31.3	
				F	14 Years	19 Years	3.6	29.0	
				F	> 19 Years	-	9.0	30.4	
3034-6	Transferrin	g/L	Blood (Serum)	M/F	≥ 0 Years	14 Years	1.86	3.88	
				M	14 Years	60 Years	1.74	3.64	
				M	> 60 Years	-	1.63	3.44	
				F	14 Years	60 Years	1.80	3.82	
				F	> 60 Years	-	1.73	3.60	
14801-5	Transferrin Saturation	%	Blood (Serum)	M/F	≥ 0 Years	-	15	45	
2276-4	Ferritin	µg/L	Blood (Serum)	M	≥ 0 Years	-	30	500	
				F	≥ 0 Years	-	15	400	
4542-7	Haptoglobin	g/L	Blood (Serum)	M	≥ 0 Years	-	0.14	2.58	
				F	≥ 0 Years	-	0.35	2.50	
14674-6	Adrenocorticotrophic Hormone (ACTH)	ng/L	Blood (Plasma)	M/F	≥ 0 Years	-	7.2	63.3	
16362-6	Ammonia	µmol/L	Blood (Plasma)	M/F	≥ 0 Years	-	18	72	
3298-7	Paracetamol (Acetaminophen)	mg/L	Blood (Serum)	M/F	≥ 0 Years	-	0	-	As of 20th January 2018, paracetamol concentrations are reported in mg/L. In the case of single acute ingestions treatment should be considered for concentrations of 150mg/l or greater at 4 hours post-ingestion.
1869-7	Apolipoprotein A1	g/L	Blood (Serum)	M	≥ 0 Years	-	0.95	1.86	
				F	≥ 0 Years	-	1.01	2.23	
1884-6	Apolipoprotein B	g/L	Blood (Serum)	M	≥ 0 Years	-	0.49	1.73	
				F	≥ 0 Years	-	0.53	1.82	
10835-7	Lipoprotein (a)	nmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	32	
33762-6	N Terminal pro-BNP	ng/L	Blood (Serum)	M/F	≥ 0 Years	75 Years	-	125	
				M/F	75 Years	-	-	450	
-	B-type Natriuretic Peptide (BNP)	-	Not performed at Austin Health Pathology. See "N Terminal pro-BNP"						
-	Chromogranin A	-	This is a referred test. Please refer to the reference range supplied on the report.						
1952-1	Beta 2 Microglobulin (B2M)	mg/L	Blood (Serum)	M/F	≥ 0 Years	-	0.97	2.64	
-	Glucose 6 Phosphate Dehydrogenase (G6PD)	-	This is a referred test. Please refer to the reference range supplied on the report.						
2465-3	Immunoglobulin G (IgG)	g/L	Blood (Serum)	M/F	≥ 0 Years	≤ 1 Year	3.27	12.70	
				M/F	≥ 2 Years	≤ 3 Years	4.68	12.50	
				M/F	≥ 4 Years	≤ 5 Years	5.32	13.40	
				M/F	≥ 6 Years	≤ 7 Years	4.54	13.60	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
				M/F	≥ 8 Years	≤ 9 Years	5.68	13.60	
				M/F	≥ 10 Years	≤ 11 Years	5.68	14.90	
				M/F	≥ 12 Years	≤ 13 Years	6.64	14.90	
				M/F	≥ 14 Years	≤ 17 Years	5.50	14.40	
				M/F	≥ 18 Years	-	6.103	16.16	
2458-8	Immunoglobulin A (IgA)	g/L	Blood (Serum)	M/F	≥ 0 Years	≤ 1 Year	0.00	0.83	
				M/F	> 1 Year	≤ 3 Years	0.20	1.00	
				M/F	≥ 4 Years	≤ 6 Years	0.27	1.95	
				M/F	≥ 7 Years	≤ 9 Years	0.34	3.05	
				M/F	≥ 10 Years	≤ 11 Years	0.53	2.04	
				M/F	≥ 12 Years	≤ 13 Years	0.58	3.58	
				M/F	≥ 14 Years	≤ 15 Years	0.47	2.49	
				M/F	≥ 16 Years	≤ 18 Years	0.61	3.48	
				M/F	≥ 19 Years	-	0.845	4.99	
				M/F	≥ 0 Years	≤ 1 Year	0.21	2.15	
2472-9	Immunoglobulin M (IgM)	g/L	Blood (Serum)	M/F	≥ 2 Years	≤ 3 Years	0.26	1.55	
				M/F	≥ 4 Years	≤ 8 Years	0.26	1.88	
				M/F	≥ 9 Years	≤ 13 Years	0.47	2.52	
				M/F	≥ 14 Years	≤ 18 Years	0.26	2.32	
				M/F	≥ 19 Years	-	0.35	2.42	
14647-2	Cholesterol (Total)	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	4.0	Treatment target for patients on lipid lowering therapy
14927-8	Triglycerides	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	2.0	
14646-4	HDL Cholesterol	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	1.0	-	
39469-2	LDL Cholesterol (calculated result)	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	2.0	
70204-3	Non-HDL Cholesterol	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	2.5	
14647-2	Cholesterol (Total)	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	5.5	The Following are targets for patients NOT on lipid lowering therapy (As published by AACB 2018)
14927-8	Triglycerides	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	2.0	
14646-4	HDL Cholesterol	mmol/L	Blood (Serum)	M	≥ 0 Years	-	1.0	-	
			Blood (Serum)	F	≥ 0 Years	-	1.2	-	
39469-2	LDL Cholesterol (calculated result)	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	3.0	
70204-3	Non-HDL Cholesterol	mmol/L	Blood (Serum)	M/F	≥ 0 Years	-	-	4.5	
2889-4	24 Hour Urine – Total Protein Excretion	g/Day	Urine	M/F	≥ 0 Years	-	-	0.15	
34366-5	24 Hour Urine – Protein : Creatinine Ratio	mg/mmol	Urine	M/F	≥ 0 Years	-	-	30	
2164-2	24 Hour Urine – Creatinine Clearance	mL/min	Urine	M/F	≥ 0 Years	-	90	150	
		mL/sec	Urine	M/F	≥ 0 Years	-	1.5	2.5	
32294-1	Random/Spot Urine - Albumin : Creatinine Ratio	mg/mmol	Urine	M	≥ 0 Years	-	-	2.50	
				F	≥ 0 Years	-	-	3.50	
2880-3	Total Protein - Cerebrospinal Fluid (CSF)	g/L	CSF	M/F	≥ 0 Days	≤ 6 Days	0.40	1.20	
				M/F	≥ 7 Days	< 1 Month	0.20	0.80	
				M/F	≥ 1 Month	1 Year	0.15	0.40	
				M/F	> 1 Year	-	0.15	0.40	
2342-4	Total Glucose - Cerebrospinal Fluid (CSF)	mmol/L	CSF	M/F	≥ 0 Years	18 Years	3.3	4.5	
				M/F	> 18 Years	-	2.2	3.9	
2746-6	pH (Power of Hydrogen) - VBG	-	Venous Blood Gas	M/F	≥ 0 Years	-	7.35	7.45	Results obtained from Venous Blood Gas samples should not be compared with results produced by a different testing methodology.
2021-4	pCO2 - VBG	mmHg	Venous Blood Gas	M/F	≥ 0 Years	-	35	45	
2705-2	pO2 - VBG	mmHg	Venous Blood Gas	M/F	≥ 0 Years	-	80	100	
14627-4	Bicarbonate (HCO3) - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	22	30	
1927-3	Base Excess - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	-3	3	
2711-0	O2 Saturation - VBG	%	Venous Blood Gas	M/F	≥ 0 Years	-	95	100	
30350-3	Total Haemoglobin - VBG	g/L	Venous Blood Gas	M/F	≥ 0 Years	-	120	180	
2716-9	Oxy-Haemoglobin (OxyHb) - VBG	%	Venous Blood Gas	M/F	≥ 0 Years	-	94	97	
19227-8	Reduced Haemoglobin (deoxyhaemoglobin) - VBG	%	Venous Blood Gas	M/F	≥ 0 Years	-	-	5.0	
2032-1	Carboxyhaemoglobin - VBG	%	Venous Blood Gas	M/F	≥ 0 Years	-	0.5	1.5	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
2617-9	Methaemoglobin - VBG	%	Venous Blood Gas	M/F	≥ 0 Years	-	-	1.5	
39791-9	Sodium - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	135	145	
39789-3	Potassium - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	3.5	5.5	
41649-5	Chloride - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	95	110	
73578-7	Anion Gap - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	8	16	
41645-3	Calcium Ionised - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	1.12	1.30	
39480-9	Random Glucose - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	3.6	7.7	
32693-4	Lactate - VBG	mmol/L	Venous Blood Gas	M/F	≥ 0 Years	-	0.2	1.8	
89871-8	Bilirubin - VBG	μmol/L	Venous Blood Gas	M/F	0 Days	≤ 27 Days	-	125	
				M/F	> 28 Days	-	-	18	
101475-2	Creatinine - VBG	μmol/L	Venous Blood Gas	M	≥ 0 Years	-	30	110	
				F	≥ 0 Years	-	30	97	
62238-1	eGFR - VBG	mL/min/1.73m ²	Venous Blood Gas	M/F	≥ 0 Years	-	90	-	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
HORMONES									
14633-2	C-Peptide	pmol/L	Blood (Serum)	M/F	≥ 0 Years	-	260	1729	Early morning collection (6am - 10 am)
14675-3	Cortisol	nmol/L	Blood (Serum)	M/F	≥ 0 Years	-	102	477	
20448-7	Insulin	mU/L	Blood (Serum)	M/F	≥ 0 Years	-	2	23	
20434-7	Prolactin	mIU/L	Blood (Serum)	M/F	≥ 0 Years	< 1 Year	115.00	1342.00	
				M/F	≥ 1 Year	< 18 Years	72.00	592.00	
				M	≥ 18 Years	-	72.66	407.40	
				F	≥ 18 Years	-	108.78	557.13	
14866-8	Parathyroid Hormone (PTH)	pmol/L	Blood (Plasma)	M/F	≥ 0 Years	-	1.6	7.0	
15067-2	Follicle Stimulating Hormone (FSH)	IU/L	Blood (Serum)	F	Mid-Follicular		3.03	8.08	
				F	Mid-Cycle Peak		2.55	16.69	
				F	Mid-Luteal		1.38	5.47	
				F	Post-Menopausal		26.72	133.41	
				M	≥ 18 Years	-	0.95	11.95	
10501-5	Luteinizing Hormone (LH)	IU/L	Blood (Serum)	F	Mid-Follicular		1.80	11.78	
				F	Mid-Cycle Peak		7.59	89.08	
				F	Mid-Luteal		0.56	14.00	
				F	Post-Menopausal		5.16	61.99	
				M	≥ 18 Years	-	0.57	12.07	
14715-7	Oestradiol (E2)	pmol/L	Blood (Serum)	F	Mid-Follicular		77.10	921.51	
				F	Mid-Cycle Peak		139.51	2382.70	
				F	Mid-Luteal		77.10	1145.46	
				F	Post-Menopausal		36.71	102.80	
				M	≥ 18 Years	-	40.38	161.54	
14890-8	Progesterone (P4)	nmol/L	Blood (Serum)	F	Mid-Follicular		0.32	0.95	
				F	Mid-Cycle Peak		-	-	
				F	Mid-Luteal		3.82	50.56	
				F	Post-Menopausal		0.32	0.64	
				M	≥ 18 Years	-	0.32	0.64	
13967-5	Sex Hormone Binding Globulin (SHBG)	nmol/L	Blood (Serum)	M	13 Years	18 Years	11	75	
				M	≥ 19 Years	-	13	90	
				F	13 Years	18 Years	18	96	
				F	≥ 19 Years	50 Years	18	135	
				F	≥ 50 Years	-	17	125	

14913-8	Testosterone (Total)	nmol/L	Blood (Serum)	M	≥ 0 Months	≤ 6 Months	0.30	10.40	
				M	≥ 6 Months	< 9 Years	0.00	1.24	
				M	9 Years	11 Years	0.00	0.81	
				M	11 Years	14 Years	0.00	15.40	
				M	14 Years	16 Years	1.25	21.90	
				M	16 Years	19 Years	5.13	27.60	
				M	19 Years	50 Years	8.33	30.19	
				M	> 50 Years	-	7.66	24.82	
				F	0 Years	9 Years	-	2.15	
				F	9 Years	13 Years	-	0.98	
				F	13 Years	15 Years	0.36	1.54	
				F	15 Years	19 Years	0.49	1.70	
				F	19 Years	50 Years	0.48	1.85	
				F	50 Years	82 Years	0.43	1.24	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
INFECTIOUS SEROLOGY & MOLECULAR									
58900-2	HIV 1, 2 Serology	-	Blood (Serum)	M/F	≥ 0 Years	-	Negative		(Ag-Ab Combo Test)
16128-1	Hepatitis C Antibody	-	Blood (Serum)	M/F	≥ 0 Years	-	Negative		
5195-3	Hepatitis B Surface Antigen	-	Blood (Serum)	M/F	≥ 0 Years	-	Negative		
16933-4	Hepatitis B Core Antibody (Total)	-	Blood (Serum)	M/F	≥ 0 Years	-	Negative		A result greater than 10 is defined as a protective level of antibody.
31204-1	Hepatitis B Core IgM Antibody	-	Blood (Serum)	M/F	≥ 0 Years	-	Not Detected		
32019-2	Hepatitis B Surface Antibody	IU/mL	Blood (Serum)	M/F	≥ 0 Years	-	10	-	
29615-2	Hepatitis B Viral Load (PCR)	RT-PCR	Blood (Plasma)	M/F	≥ 0 Years	-	Not Detected		
		Load (IU/mL)		M/F	≥ 0 Years	-	-	0	
		Log10 (IU/mL)		M/F	≥ 0 Years	-	-	0	
11011-4	Hepatitis C Viral Load (PCR)	RT-PCR	Blood (Plasma)	M/F	≥ 0 Years	-	Not Detected		
		Load (IU/mL)		M/F	≥ 0 Years	-	-	0	
		Log10 (IU/mL)		M/F	≥ 0 Years	-	-	0	
20447-9	HIV-1 Viral Load	RT-PCR	Blood (Plasma)	M/F	≥ 0 Years	-	Not Detected		
		Load (copies)		M/F	≥ 0 Years	-	-	0	
		Log10 (copies)		M/F	≥ 0 Years	-	-	0	

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES
MICROBIOLOGY									
50555-2	Glucose - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
20454-5	Protein - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
5803-2	pH - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	5.0	8.5	
5811-5	Specific Gravity - Urine Dipstick	Ratio	Urine	M/F	≥ 0 Years	-	1.005	1.030	
5799-2	Leucocyte Esterases - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
2514-8	Ketones - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
5802-4	Nitrites - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
5770-3	Bilirubin - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
50041-3	Urobilinogen - Urine Dipstick	μmol/L	Urine	M/F	≥ 0 Years	-	3.2	16.0	
5794-3	Blood/Hb - Urine Dipstick	-	Urine	M/F	≥ 0 Years	-	Negative		
46702-7	Leucocytes - Urine Microscopy	10^6/L	Urine	M/F	≥ 0 Years	-	-	10	
46419-8	Erythrocytes - Urine Microscopy	10^6/L	Urine	M/F	≥ 0 Years	-	-	13	
87827-2	Pathological Casts (Excluding Hyaline Casts) - Urine Microscopy	-	Urine	M/F	≥ 0 Years	-	Negative		The presence of any cast EXCEPT Hyaline Casts, is considered abnormal.

58433-4	Crystals - Urine Microscopy	-	Urine	M/F	≥ 0 Years	-	Negative	Presence of crystals will be noted, and if known differentiated into the type of crystal (e.g. Uric Acid, Calcium Oxalate).
104648-1	Yeast - Urine Microscopy	-	Urine	M/F	≥ 0 Years	-	Negative	The presence of yeast in urine is considered abnormal but may not be pathogenic. Interpret with clinical findings.
104865-1	Bacteria - Urine Microscopy	-	Urine	M/F	≥ 0 Years	-	Negative	Excluding contamination, the presence of bacteria in urine is considered abnormal.

LOINC CODE	ANALYTE	UNIT	SPECIMEN TYPE	SEX AT BIRTH	LOWER AGE	UPPER AGE	LOWER REFERENCE INTERVAL	UPPER REFERENCE INTERVAL	NOTES	
IMMUNOLOGY										
2865-4	Alpha 1 Globulin - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	2.1	3.5		
2868-8	Alpha 2 Globulin - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	5.1	8.5		
32730-4	Beta 1 Globulin - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	3.4	5.2		
32731-2	Beta 2 Globulin - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	2.3	4.7		
2874-6	Gamma Globulin - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	8.0	13.5		
-	Paraproteins (Any Type) - Electrophoresis	g/L	Blood	M/F	≥ 0 Years	-	Negative			
36916-5	Kappa Free LC	mg/L	Blood	M/F	≥ 0 Years	-	3.3	19.4		
33944-0	Lambda Free LC	mg/L	Blood	M/F	≥ 0 Years	-	5.7	26.3		
48378-4	Kappa Lambda Ratio	Ratio	Blood	M/F	≥ 0 Years	-	0.26	1.65		
19113-0	Immunoglobulin E (IgE)	kU/L	Blood	M/F	≥ 18 Years	-	-	< 114		
-	Immunoglobulin D (IgD)	-	This is a referred test. Please refer to the reference range supplied on the report.							
40661-1	Urinary Bence Jones Protein/Free Light Chain	-	Urine	M/F	≥ 0 Years	-	Negative		The presence of any Bence Jones Protein or free light chain is abnormal in urine.	
40661-1	Urine Protein - Paraprotein Band 1 - Electrophoresis	g/L	Urine	M/F	≥ 0 Years	-	Negative			
51437-2	Urine Protein - Paraprotein Band 2 - Electrophoresis	g/L	Urine	M/F	≥ 0 Years	-	Negative			
51440-6	Urine Protein - Paraprotein Band 3 - Electrophoresis	g/L	Urine	M/F	≥ 0 Years	-	Negative			
42254-3	Anti-Nuclear Antibodies (ANA)	Titre	Blood (Serum)	M/F	≥ 18 Years	-	-	80		



Clinical Trial Reference Ranges - Austin Pathology (Harmonised)_Sept2025

Final Audit Report

2025-09-16

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