



Referrer Dr Karl Baumgart

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MED CTR 66 PACIFIC HIGHWAY  
ST LEONARDS NSW 2065

Phone 0294399360

Your ref. GTU40675\_A8182

Address 32/7-15 TARANTO RD  
MARSFIELD NSW 2122

Phone 0437031900

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Requested 16/05/2022  
Collected 16/05/2022 12:35 AEDT  
Received 16/05/2022 12:37 AEDT

**Rheumatoid Factor (Quantitative)**  
(Architect Method)

Test Name	Result	Units	Reference Interval
Rheumatoid Factor (RF)	<6	IU/mL	<16

NATA ACCREDITATION NO 2178

Reported on 16-05-2022 23:16



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## Biochemistry

Test Name	Result	Units	Reference Interval
Status	Random		
Sodium	143	mmol/L	135 - 145
Potassium	4.5	mmol/L	3.5 - 5.5
Chloride	107	mmol/L	95 - 110
Bicarbonate	26	mmol/L	20 - 32
Urea	5.1	mmol/L	3.0 - 8.0
Creatinine	80	umol/L	60 - 110
eGFR	>90	mL/min/1.73m2	>59
● Urate	0.18 L	mmol/L	0.20 - 0.50
Calcium	2.20	mmol/L	2.15 - 2.55
● Corrected Calcium	2.08 L	mmol/L	2.15 - 2.55
Phosphate	1.27	mmol/L	0.8 - 1.5
Total Bilirubin	13	umol/L	4 - 20
Alk Phos	70	U/L	35 - 110
Gamma GT	15	U/L	5 - 50
LDH	143	U/L	120 - 250
AST	27	U/L	10 - 40
ALT	35	U/L	5 - 40
Total Protein	75	g/L	68 - 85
Albumin	49	g/L	39 - 50
Globulin	26	g/L	23 - 39
● Cholesterol	3.4 L	mmol/L	3.9 - 5.5
Triglycerides	0.8	mmol/L	0.5 - 1.7
CK	94	U/L	45 - 250

## Comments

eGFR (mL/min/1.73m2) calculated by CKD-EPI formula - see [www.kidney.org.au](http://www.kidney.org.au)

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### C Reactive Protein (High Sens)

Test Name	Result	Units	Reference Interval
CRP	<0.4	mg/L	0.0 - 5.0

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### Glucose

Test Name	Result	Units	Reference Interval
Glucose Random	4.6	mmol/L	3.6 - 7.7

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### Thyroid Function

Test Name	Result	Units	Reference Interval
TSH	1.37	mIU/L	0.40 - 3.50

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### Thyroglobulin and/or Thyroid Antibodies

Thyroglobulin Ab	3.3	IU/mL	<4.1
Thyroid Peroxidase Ab	0.4	IU/mL	<5.6

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### Haematology

Test Name	Result	Units	Reference Interval
<b>Haemoglobin</b>	143	g/L	130 - 180
Red cell count	4.8	$\times 10^{12}/L$	4.5 - 6.5
Haematocrit	0.42		0.39 - 0.54
MCV	88	fL	80 - 100
MCH	30.1	pg	27.0 - 32.0
MCHC	344	g/L	310 - 360
RDW	11.6		10.0 - 15.0
<b>White cell count</b>	6.3	$\times 10^9/L$	4.0 - 11.0
Neutrophils	3.49	$\times 10^9/L$	2.0 - 7.5
Lymphocytes	2.17	$\times 10^9/L$	1.0 - 4.0
Monocytes	0.35	$\times 10^9/L$	0.0 - 1.0
Eosinophils	0.22	$\times 10^9/L$	0.0 - 0.5
Basophils	0.05	$\times 10^9/L$	0.0 - 0.3
NRBC	<1.0	/100 WBC	<1
<b>Platelets</b>	223	$\times 10^9/L$	150 - 450
ESR	4	mm/h	1 - 20

### Comments

**Red Cell Morphology:** Normal

Normal film

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### Antinuclear Antibodies

ANA Not Detected

### Comments

(Screened at a titre of 80)

PLEASE NOTE: As of 18/10/2021, ANA testing will be reported using Inova Hep2 slides. Occasional patients may react differently with this change in test system.

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Reported on 17-05-2022 13:45

### Intrinsic Factor Antibody

IF Ab Not Detected

### Comments

Intrinsic Factor antibodies are highly specific for pernicious anaemia but diminish over time. B12 therapy does not affect this assay. Parietal cell antibodies are less specific but persist longer. Testing both is recommended for investigation of pernicious anaemia.

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Reported on 18-05-2022 13:14



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#### Gastric Parietal Cell Antibody

GPC Ab Not Detected

#### Comments

Please note: From 29/07/2021, this test is now performed on Inova tissue slides with a changed screening dilution. Some sera may react slightly differently in this new test system compared to our previous test system.

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Reported on 17-05-2022 13:58

#### Anti-Saccharomyces Cerevisiae Antibody

ASCA IgG Not Detected  
ASCA IgA Detected \*

#### Comments

Both IgA and IgG antibodies to Saccharomyces cerevisiae have been strongly associated with Crohn's disease and do not commonly occur with ulcerative colitis or in clinically normal persons. The presence of ASCA may increase the likelihood of Crohn's disease.

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#### Antibodies to Extractable Nuclear Antigen (ENA)

SS-A 60	Not detected
SS-B	Not detected
Ro-52	Not detected
Scl-70	Not detected
Jo-1	Not detected
Cenp-B	Not detected
Sm	Not detected
RNP	Not detected
Ribo-P	Not detected

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Reported on 17-05-2022 15:33

#### Coeliac Serology

Deamidated Gliadin IgA	6	U/mL	<15
Deamidated Gliadin IgG	2	U/mL	<15
Tissue Transglutaminase IgA	<1	U/mL	<15
Tissue Transglutaminase IgG	<1	U/mL	<15

#### Comments

Performed on Bioplex 2200. This detects selective IgA deficiency (<0.07 g/L), an additional comment will be attached if detected.

In persons eating wheat (most days, last six weeks), negative serology effectively excludes coeliac disease/dermatitis herpetiformis. One elevated marker may occur without disease whereas two or more elevated (at four times the cutoff level) markers strongly predict coeliac disease which can be confirmed by biopsy.

Serology becomes negative on gluten free diet (6-9 months for IgA-deam gliadin and IgA-tTG, 9-15 months for IgG-deam gliadin and IgG-tTG). Without compliance, coeliac markers rise. Coeliac tissue-typing excludes coeliac disease risk by excluding HLA-DQ2 or DQ8 in persons with discordant serology or discordant serology-biopsy findings.

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Reported on 17-05-2022 13:10



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### Immunoglobulins

Immunoglobulin G	12.02	g/L	6.20 - 14.40
Immunoglobulin A	2.43	g/L	0.60 - 3.96
Immunoglobulin M	0.81	g/L	0.48 - 3.04

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### IgG Subclasses

Immunoglobulin G	12.02	g/L	6.20 - 14.40
Immunoglobulin G1 (IgG1)	7.78	g/L	3.82 - 9.29
Immunoglobulin G2 (IgG2)	3.61	g/L	2.42 - 7.00
Immunoglobulin G3 (IgG3)	0.615	g/L	0.218 - 1.761
Immunoglobulin G4 (IgG4)	0.013 L	g/L	0.039 - 0.864

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Reported on 17-05-2022 15:04

### Cyclic Citrullinated Peptide Antibodies (Abbott)

CCP Abs	18 H	U/mL	<5
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### Comments

Cyclic citrullinated peptide (CCP) antibodies occur in 70% of patients with rheumatoid arthritis. CCP antibodies may precede detectable RF and development of CCP antibodies in RF positive patients heralds more severe, erosive active disease.

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### Serum Protein Electrophoresis (EPG)

Total Protein	75	g/L	68 - 85
Albumin	47	g/L	37 - 50
Total Globulin	28	g/L	22 - 38
Alpha 1 Globulin	1.8	g/L	1.0 - 3.0
Alpha 2 Globulin	6.9	g/L	4.0 - 10.0
Beta Globulin	7.2	g/L	5.0 - 11.0
Gamma Globulin	12.4	g/L	7.0 - 16.0

### Comments

Normal electrophoretic pattern.

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Reported on 18-05-2022 15:02

### Anti-Neutrophil Cytoplasmic Antibodies

ANCA Screen	Positive *		
Pattern	P-ANCA		
Titre	80		
Myeloperoxidase Ab (BioPlex)	<0.2	Index	<1.0
Proteinase 3 Ab (BioPlex)	<0.2	Index	<1.0

### Comments

P-ANCA pattern detected, antibodies to myeloperoxidase (MPO) not detected. This may occur with treated microscopic polyangiitis, with inflammatory bowel disease and other autoimmune diseases.

PLEASE NOTE: As of 15/10/2021, ANCA testing will be reported using Inova slides. Occasional patients may react differently with this change in test system.

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### COVID-19 Serology

SARS-CoV-2 Ab (nucleocapsid)  
SARS-CoV-2 IgG (spike)

**Detected \***  
Detected

### Comments

The history of previous COVID-19 and vaccination is supported by the co-presence of nucleocapsid and spike antibody.

Correlation with protective immunity is currently uncertain.

Vaccination is recommended no later than 4 months after resolution of infection.

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