

THERAPEUTIC DRUG MONITORING TEST REPERTOIRE

Department of Medical Biochemistry, Immunology and Toxicology
University Hospital of Wales
Heath Park
Cardiff
CF14 4XW

Therapeutic Drug Monitoring (TDM section) open Monday to Friday 08:45 to 17:15

For laboratory enquiries please contact:

Katie Hicks (Senior Biomedical Scientist)

Tel: 02921 848372

E-mail: Katie.Hicks@wales.nhs.uk

For clinical advice contact:

Sarah Tennant (Clinical Biochemist)

Tel: 02921 848334

E-mail: Sarah.Tennant@wales.nhs.uk

FOR URGENT REQUESTS PLEASE CONTACT THE LABORATORY

Samples will be processed as soon as it is feasible to do so.

It may be possible to process small sample volumes but advisable to contact laboratory for advice.

Please provide clinical details, particularly current patient medication, and collection times of sample on all request forms

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Assay	Sample Requirement (ml)	Sample Handling / Transport	Methodology	Reference Range	Turnaround Time (maximum working days)	EQA	Clinical Utility
Carbamazepine	Trough 1ml serum	2 - 8°C 48 hours -20°C 7 days	PETINIA	4 – 12 mg/L	1	UK NEQAS	Anti-convulsant
Ciclosporin	Trough 2ml whole blood	2 - 8°C 7 days	CMIA	None quoted	1	LGC Standards proficiency testing	Immunosuppression
Digoxin	Trough 1ml serum	2 - 8°C 48 hours	PETINIA	0.5 – 2.0 ug/L	1	UK NEQAS	Atrial fibrillation, cardiac failure
Iron (Iron overdose only)	1ml serum	7 days Room Temp	Colorimetric	10 - 30 μmol/L	2h from receipt in lab	UK NEQAS	Toxicology – iron overdose
Lithium	Trough 1ml serum	24 hours Room Temp	MULIGENT Colorimetric	0.4 - 1.0 mmol/L	1	UK NEQAS	Mood stabilisation in bipolar disorder
Phenobarbital	Trough 1ml serum	7 days Room Temp	PETINIA	10 – 40 mg/L	1	UK NEQAS	Anti-convulsant
Phenytoin	Trough 1ml serum	48 hours Room Temp 2-8°C 1 month	Enzyme Immunoassay	5 – 20 mg/L	1	UK NEQAS	Anti-convulsant
Sirolimus	2ml whole blood	2 - 8°C 7 days	CMIA	None quoted	5	LGC Standards proficiency testing	Immunosuppression
Tacrolimus	2ml whole blood	2 - 8°C 7 days	CMIA	None quoted	1	LGC Standards proficiency testing	Immunosuppression
Theophylline	Trough 1ml serum	2-8°C 3 months	Enzyme Immunoassay	10 – 20 mg/L	1	UK NEQAS	Bronchodilation
Valproate	Trough 1ml serum	2 - 8°C 48 hours -20°C 7 days	PETINIA	None quoted	1	UK NEQAS	Anti-convulsant

^{*} For current prices please contact the department

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