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Bwrdd Iechyd Prifysgol
Caerdydd a'r Fro
Cardiff and Vale
University Health Board

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: 02920 748372
E-mail: Katie.Hicks@wales.nhs.uk

For clinical advice contact:

Danja Schulenberg-Brand (Consultant)
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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

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

*** For current prices please contact the department**