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University Health Board

## **CARDIFF PORPHYRIA SERVICE TEST REPERTOIRE 2025/2026**

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

Porphyria Service Open Monday – Friday 09:00 to 17:00

For Laboratory enquiries: 029 21843565 (Lucy Bentley)  
For Genetics enquiries: 029 21842811 (Michelle Wood)

Email enquiries: [CAV\\_porphyria@wales.nhs.uk](mailto:CAV_porphyria@wales.nhs.uk)

For clinical advice: 029 21846588 (Dr Danja Schulenburg-Brand)  
[Danja.Schulenburg-brand@wales.nhs.uk](mailto:Danja.Schulenburg-brand@wales.nhs.uk)

Website: [www.cardiff-porphyria.org](http://www.cardiff-porphyria.org)

**N.B.** Please refer to the Sample Advice page on our website for help in choosing the most appropriate samples to send in relation to the patients' clinical state.

**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. PLEASE CONTACT THE LABORATORY FOR ADVICE. PLEASE PROVIDE CLINICAL DETAILS AND RESULTS OF OTHER RELEVANT TESTS WHEREVER POSSIBLE. PLEASE STATE SAMPLE COLLECTION DATE ON ALL REQUEST FORMS.**

<b>Assay</b>	<b>Sample requirements (ml)</b>	<b>Sample handling / Transport</b>	<b>Methodology</b>	<b>Reference range</b>	<b>Turnaround Time Maximum TAT quoted in working days*</b>	<b>Clinical Utility</b>
Total urine porphyrin	Urine, preferably early morning sample (2ml)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	Spectro-fluorimetry	<42nmol/mmol creat	10	Suspected porphyria. Monitoring bullous porphyria treatment
Porphobilinogen (urine)	Urine, preferably early morning sample (3ml)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	Ion exchange/spectroscopy	<1.5umol/mmol creat	10	Suspected acute porphyria. Monitoring known acute porphyria patients.
Aminolevulinic acid (urine)	Urine, preferably early morning sample (4ml)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	Ion exchange/spectroscopy	<3.8umol/mmol creat (Adult) <5.2umol/mmol creat (Child)	10	Limited availability. Please contact laboratory.
HPLC (urine)	Urine, preferably early morning sample (2ml)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	HPLC fluorimetric detection	N/A	10	Confirmation of diagnosis
Total faecal porphyrin	Stool (~5g)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	Solvent extraction/spectroscopy	<200nmol/g dry weight	10	Limited availability. Please contact laboratory.
HPLC (Faeces)	Stool (~5g)	Overnight or up to 4 days at 4°C. Protected from light. Guaranteed overnight or next day delivery.	HPLC fluorimetric detection	N/A	10	Confirmation of diagnosis

Assay	Sample requirements (ml)	Sample handling / Transport	Methodology	Reference range	Turnaround Time (working days)	Clinical Utility
Plasma porphyrin screen	EDTA whole blood (5-10ml)	Overnight or up to 4 days at 4°C. Do not freeze whole blood sample. Protected from light. Guaranteed overnight or next day delivery.	Spectro-fluorimetry	Not increased	10	Suspected porphyria
Red blood cell porphyrin screen	EDTA whole blood (5-10ml)	Overnight or up to 4 days at 4°C. Do not freeze whole blood sample. Protected from light. Guaranteed overnight or next day delivery.	Spectro-fluorimetry	Not increased	10	Suspected cutaneous porphyria
Red blood cell total porphyrin	EDTA whole blood (5-10ml)	Overnight or up to 4 days at 4°C. Do not freeze whole blood sample. Protected from light. Guaranteed overnight or next day delivery.	Spectro-fluorimetry	0.4-1.7umol/l	10	Suspected cutaneous porphyria, monitoring patients with EPP

\*Please contact the laboratory to arrange urgent analyses - all tests performed outside normal working hours will incur an additional charge

For current prices please contact the laboratory.

**EQA**- All assays registered for RCPA-AACB Australia & IPNET EQA