

CSF Monoamine Metabolites, 5-Methyltetrahydrofolate, Pterins & PLP Request form

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Neurometabolic Use Only
 Date Received:
 Time Received:
 Accession Number:
 Freezer Rack Location:

**NEVER MIX SAMPLES FROM DIFFERENT PATIENTS IN THE SAME LIQUID
 NITROGEN FLASK. STORE UNUSED SAMPLE TUBES AT 4 °C**

Surname: _____ **Hospital:** _____
Forename: _____ **Hospital No:** _____
Sex: M / F _____ **Specimen date & Time:** _____
DOB: _____ **Consultant:** _____
NHS No: _____ **Contact details:** _____
Name of person performing Lumbar Puncture: _____

Clinical Details:

Drug therapy:

PLEASE NOTE the above details are essential to allow for the accurate interpretation of results.

Collection Instructions

- Number three tubes as 1, 2, 3 and by using a sticky label or permanent marker, include patient details such as surname, first name, date of birth, hospital number, and specimen date on all tubes.
- The first 0.5ml of lumbar CSF should be collected into **Tube 1** for HVA and 5HIAA measurements.
- The second 0.5ml of lumbar CSF should be collected into **Tube 2** for 5MTHF and PLP determination.
- The next 1ml of lumbar CSF should be collected into **Tube 3** which contains 1mg of each preservative (DTE & DETAPAC), for pterin (neopterin, dihydrobiopterin and tetrahydro-biopterin) analysis.
- For Pterin analysis, please confirm preservatives are present (**ESSENTIAL**)
- **ALL** CSF samples must be frozen at the bedside on dry ice or liquid nitrogen and transported to the laboratory frozen)
- Please ensure all samples arrive during lab opening hours, currently 9-5.30, Monday to Friday (see user manual for more details).

Test	Tick if required	Result	Units	Reference Range
HVA*			nmol/L	
5HIAA*			nmol/L	
HVA:5HIAA ratio				1.0-3.7
5MTHF (Folate)*			nmol/L	
Neopterin			nmol/L	7-65
Dihydrobiopterin			nmol/L	<0.4-13.9
Tetrahydrobiopterin*			nmol/L	
Pyridoxal Phosphate (PLP)*			nmol/L	

*Age Related Reference Intervals

DTE = Dithioerythritol DETAPAC = Diethylenetriaminepentaacetic acid.

SPECIMENS FAILING TO ADHERE TO ALL STATED SAMPLE REQUIREMENTS AND LABELLING MAY NOT BE PROCESSED – please contact the laboratory with any queries

Please Refer to the current published User Manual on our website for further information for patients and users.
 InternalUsers:

<http://insight/departments/medicineboard/pathology/BiochemicalMedicine/neurometabolicunit/Pages/default.aspx>

Externalusers: <https://www.uclh.nhs.uk/OurServices/ServiceA-Z/Neuro/NMU/Pages/Home.aspx>