

Test Definition: FFTEN

Tetrahydrobiopterin and Neopterin Profile (BH4, N)

Reporting Title: Tetrahydrobiopterin/Neopterin **Performing Location:** Medical Neurogenetics, LLC

Specimen Requirements:

Medical Neurogenetics collection kit (T657) required. Each collection kit contains 5 microcentrifuge tubes.

COLLECTION PROTOCOL:

- 1) CSF should be collected from the first drop into the tubes in the numbered order. Fill each tube to the marked line with the required volumes
 - Tube 1: 0.5 mL
 - Tube 2: 1.0 mL

Tube 3: 1.0 mL (contains antioxidants necessary to protect the sample integrity)

Tube 4: 1.0 mL

Tube 5: 1.0 mL

- If sample's not blood contaminated, the tubes should be placed on dry ice at bedside
- If sample's are blood contaminated, the tubes should immediately be centrifuged (prior to freezing) and the clear CSF transferred to new similarly labeled tubes, then frozen
- Store samples at -80 until they can be shipped
- 2) Complete Medical Neurogenetics, LLC request form. Include test required, sample date and date of birth.
- 3) Label tubes with patient name and ID number, leaving the tube number viewable.
- 4) Place samples inside a specimen transport bag and the Medical Neurogenetics, LLC request form inside the pouch of the transport bag.
- 5) Ship samples frozen on dry ice.

Specimen Type	Temperature	Time	Special Container
CSF	Frozen		CSF KIT

Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
Z2234	Neopterin	Alphanumeric	nmol/L	34146-1
Z2235	Tetrahydrobiopterin	Alphanumeric	nmol/L	Not Provided
Z2236	Interpretation	Alphanumeric		59462-2

LOINC[®] and CPT codes are provided by the performing laboratory.

Supplemental Report:

Referral

CPT Code Information:

82542

Reference Values:



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Tetrahydrobiopte	rin/Neopterin Profile	
Age	BH4	Neop
(years)	(nmol/L)	(nmol/L)
0-0.2	40 – 105	7 – 65
0.2 – 0.5	23 – 98	7 – 65
0.5 – 2.0	18 – 58	7 – 65
2.0 – 5.0	18 – 50	7 – 65
5.0 - 10	9 – 40	7 – 40
10 – 15	9 – 32	8 – 33
Adults	10 - 30	8 - 28

Note: If test results are consistent with the clinical presentation, please call our laboratory to discuss the case and/or submit a second sample for confirmatory testing.

An important consideration for false positive for false negative results is the improper labeling of the patient sample.