

**Reporting Title:** 5-Methyltetrahydrofolate  
**Performing Location:** Medical Neurogenetics, LLC

**Specimen Requirements:**  
Medical Neurogenetics collection kit (T657) required.  
Each collection kit contains 5 microcentrifuge tubes.

- COLLECTION PROTOCOL:
- 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
  - Complete Medical Neurogenetics, LLC request form. Include test required, sample date and date of birth.
  - Label tubes with patient name and ID number, leaving the tube number viewable.
  - Place samples inside a specimen transport bag and the Medical Neurogenetics, LLC request form inside the pouch of the transport bag.
  - Ship samples frozen on dry ice.

Specimen Type	Temperature	Time	Special Container
CSF	Frozen		CSF KIT

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
Z2241	5-Methyltetrahydrofolate	Numeric	nmol/L	47547-5
Z2242	Interpretation	Numeric		Not Provided

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

**Supplemental Report:**  
Referral

**CPT Code Information:**  
82542

**Reference Values:**  
**5-Methyltetrahydrofolate**  
Age      5MTHF

(years)	(nmol/L)
0-0.2	40-240
0.2-0.5	40-240
0.5-2.0	40-187
2.0-5.0	40-150
5.0-10	40-128
10-15	40-120
Adults	40-120

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

DISCLAIMER required by the FDA for high complexity clinical laboratories: HPLC testing was developed and its performance characteristics determined by Medical Neurogenetics. These HPLC tests have not been cleared or approved by the U.S. FDA.