

**Reporting Title:** Neurotransmitter Metabolites**Performing Location:** Medical Neurogenetics, LLC**Specimen Requirements:**

Medical Neurogenetics collection kit (MCL Supply 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 Minimum Volume:**

4.5 mL

Specimen Type	Temperature	Time	Special Container
CSF	Frozen		CSF KIT

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
Z0852	5-Hydroxyindoleacetic acid	Alphanumeric	nmol/L	47544-2
Z0849	Homovanillic acid	Alphanumeric	nmol/L	40846-8
Z0850	3-O-methyldopa	Alphanumeric	nmol/L	34596-7
Z0851	Interpretation:	Alphanumeric		59462-2

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**  
Referral**CPT Code Information:**

82542  
83497  
83150

**Reference Values:**

Age (years)	5HIAA (nmol/L)	HVA (nmol/L)	3-O-MD (nmol/L)
0-0.2	208-1159	337-1299	<300
0.2-0.5	179-711	450-1132	<300
0.5-2.0	129-520	294-1115	<300
2.0-5.0	74-345	233-928	<150
5.0-10	66-338	218-852	<100
10-15	67-189	167-563	<100
Adults	67-140	145-324	<100

Interpretation performed by Keith Hyland, Ph.D.

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.