Reporting Title: Neurotransmitter Metabolites
Performing Location: Medical Neurogenetics, LLC

Specimen Requirements:

Medical Neurogenetics collection kit (MML 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: 0.5 mL
Tube 3: 1.0 mL (contains antioxidants necessary to protect the sample integrity)
Tube 4: 1.0 mL
Tube 5: 0.5 mL
- If samples not blood contaminated should be placed on dry ice at bedside
- If samples 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, date of birth, current medications and relevant history.
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
CSF	Frozen	

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

Result ID	Reporting Name	Type	Unit	LOINC®
Z0850	3-O-methyldopa	Alphanumeric	nmol/L	3496-7
Z0851	Interpretation:	Alphanumeric		In Process

CPT Code: 1 × 82492

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.

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.

Test Performed By: Medical Neurogenetics Lab
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