MAYO CLINIC LABORATORIES

Test Definition: FHIAA

5-HIAA, Plasma

Overview

Method Name
GC-MS/MS

NY State Available
Yes

Specimen

Specimen Type
Plasma

Specimen Required
Patient preparation: Patient should fast overnight prior to collection of specimen.
Specimen Type: Plasma
Container/Tube: Z tube
Specimen Volume: 3 mL
Collection Instructions: Draw 10 mL of blood in special Z-tube (MCL T701). Separate plasma from cells immediately after draw and send 3 mL of plasma frozen in plastic vial.

Reject Due To

Hemolysis	Mild reject; Gross reject
Lipemia	Mild reject; Gross reject
Icterus	NA
Other	Specimens other than collected in Z tube (MCL T701).

Specimen Minimum Volume
1 mL

Specimen Stability Information

Specimen Type	Temperature	Time	Special Container
Plasma	Frozen (preferred)	90 days	

Clinical & Interpretive

Clinical Information
The ISI plasma 5-HIAA assay correlates well with the 24-hour urinary 5-HIAA assays. This test has been clinically validated for NETS patients who previously relied on the 24-hour urinary 5-HIAA. The plasma 5-HIAA saves time, alleviates the need to collect urine in a container for 24 hours, and provides equivalent clinical information.

Reference Values
Up to 22 ng/mL

Clinical Reference
1. Tellez MR, Mamikunian G, O'Dorisio TM et al. A single fasting plasma 5-HIAA value correlates with 24-hour urinary 5-HIAA values and other biomarkers in midgut neuroendocrine tumors (NETs). Pancreas. 2013:42(3): 405-410.
2. Cai H-L, Zhu R-H, Li H-D, et al. MultiSimplex optimization of chromatographic separation and dansyl derivatization conditions in the ultra performance liquid chromatography-tandem mass spectrometry analysis of neurotransmitters in human urine. J Chromato B 2011;879:1993-1999.
3. Gonzalez RR, Fernandez RF, Vidal JLM et al. Development and validation of an ultra-high performance liquid chromatography-tandem mass spectrometry (UHPLC-MS/MS) method for the simultaneous determination of neurotransmitters in rat brain samples. J Neuro Meth 2011;198: 187-194.
4. Stephanson N, Helander A, Beck O. Alcohol biomarker analysis: simultaneous determination of 5-hydroxytryptophol glucuronide and 5-hydroxyindoleacetic acid by direct injection of urine using ultra-performance liquid chromatographytandem mass spectrometry. J Mass Spect 2007;42: 940-949.

Performance

PDF Report
No

Performing Laboratory Location
Inter Science Institute

Fees & Codes

Test Classification
This GCMS assay was developed and its performance characteristics determined by Inter Science Institute. It has not been cleared or approved by the FDA and such approval or clearance is not required at this time. Values obtained with different methods, different laboratories or with kits cannot be used interchangeably with the results on this report. The results cannot be interpreted as absolute evidence of the presence or absence of malignant disease.

CPT Code Information
83497

LOINC® Information

Test ID	Test Order Name	Order LOINC Value
FHIAA	5-HIAA, Plasma	1693-1

Result ID	Test Result Name	Result LOINC Value

FHIAA	5-HIAA, Plasma	1693-1