Test Definition: HCYSP

Homocysteine, Total, Plasma

Reporting Title: Homocysteine, Total, P
Performing Location: Mayo Clinic Laboratories - Rochester Main Campus

Necessary Information:

1. Patient's age and sex are required.
2. Biochemical Genetics Patient Information (T602) is recommended, but not required, for suspected cases of inherited disorders of methionine metabolism.

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Collection Container/Tube:
Preferred: Lavender top (EDTA)
Acceptable: Green top (sodium or lithium heparin)
Submission Container/Tube: Plastic vial
Specimen Volume: 1 mL
Collection Instructions:
1. Immediately place specimen on wet ice.
2. Within 4 hours of collection, centrifuge and aliquot plasma into a plastic vial.
3. If blood cannot be placed on wet ice immediately, then within 1 hour of collection, centrifuge and aliquot plasma into a plastic vial.
4. A refrigerated centrifuge is not required if the above time restrictions are met.

Forms:

1. Biochemical Genetics Patient Information (T602)
2. If not ordering electronically, complete, print, and send 1 of the following with the specimen:
-Biochemical Genetics Test Request (T798)
-Benign Hematology Test Request (T755)

Specimen Type	Temperature	Time	Special Container
Plasma EDTA	Refrigerated (preferred)	28 days	
	Ambient	28 days	
	Frozen	309 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
80379	Homocysteine, Total, P	Numeric	nmol/mL	13965-9

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

Supplemental Report:

No

CPT Code Information:

83090

Reference Values:

Total homocysteine (nmol/mL)

Age	Female	Male
0-11 months	3.1-8.3	3.2-9.7
12-23 months	3.2-8.3	3.3-9.6
24-35 months	3.2-8.2	3.3-9.6
3 years	3.2-8.2	3.3-9.6
4 years	3.3-8.2	3.4-9.5
5 years	3.4-8.1	3.5-9.4
6 years	3.5-8.1	3.6-9.4
7 years	3.5-8.1	3.7-9.4
8 years	3.6-8.2	3.8-9.3
9 years	3.7-8.2	3.9-9.4
10 years	3.8-8.3	4.1-9.4
11 years	3.9-8.4	4.3-9.4
12 years	3.9-8.6	4.4-9.5
13 years	4.0-8.7	4.6-9.6
14 years	4.1-8.8	4.8-9.7
15 years	4.2-8.9	5.0-9.8
16 years	4.2-9.1	5.2-9.9
17 years	4.3-9.2	5.4-10.0
18 years	4.3-9.3	5.6-10.1
19 years	4.4-9.5	5.7-10.3
20 years	4.4-9.6	5.9-10.5
21 years	4.4-9.8	6.0-10.6
22 years	4.4-9.9	6.1-10.8
23 years	4.4-10.1	6.2-11.0
24 years	4.4-10.3	6.2-11.1
25 years	4.4-10.4	6.3-11.3
26 years	4.4-10.6	6.3-11.4
27 years	4.3-10.8	6.4-11.6
28 years	4.3-11.0	6.4-11.7
29 years	4.3-11.2	6.4-11.8
30 years	4.3-11.4	6.4-11.9
31 years	4.4-11.6	6.4-12.1
32 years	4.4-11.8	6.4-12.2
33 years	4.4-11.9	6.4-12.3
34 years	4.5-12.1	6.4-12.4
35 years	4.5-12.2	6.4-12.6

36 years	4.6-12.4	6.4-12.8
37 years	4.6-12.5	6.4-12.9
38 years	4.7-12.7	6.4-13.1
39 years	4.7-12.8	6.4-13.2
40 years	4.8-13.0	6.5-13.4
41 years	4.8-13.2	6.5-13.5
42 years	4.8-13.4	6.5-13.7
43 years	4.9-13.5	6.6-13.9
44 years	4.9-13.7	6.6-14.0
45 years	4.9-13.9	6.6-14.2
46 years	4.9-14.0	6.7-14.4
47 years	4.9-14.2	6.7-14.5
48 years	5.0-14.3	6.8-14.7
49 years	5.0-14.4	6.8-14.9
50 years	5.0-14.5	6.8-15.0
51 years	5.1-14.6	6.8-15.2
52 years	5.1-14.7	6.9-15.4
53 years	5.1-14.8	6.9-15.5
54 years	5.2-14.9	6.9-15.6
55 years	5.2-15.0	6.9-15.7
56 years	5.3-15.0	6.9-15.8
57 years	5.3-15.1	6.9-15.9
58 years	5.3-15.2	6.9-16.0
59 years	5.4-15.2	6.9-16.0
60 years	5.4-15.3	6.9-16.1
61 years	5.4-15.4	7.0-16.2
62 years	5.5-15.4	7.0-16.2
63 years	5.5-15.5	7.0-16.3
64 years	5.6-15.5	7.1-16.3
65 years	5.6-15.6	7.1-16.3
66 years	5.7-15.6	7.1-16.3
67 years	5.7-15.7	7.2-16.3
68 years	5.8-15.7	7.2-16.3
69 years	5.9-15.7	7.2-16.3
70 years	6.0-15.8	7.3-16.3
71 years	6.1-15.8	7.3-16.3
72 years	6.2-15.8	7.3-16.3
73 years	6.3-15.9	7.3-16.3
74 years	6.4-15.9	7.3-16.3
75 years	6.5-15.9	7.3-16.3
76 years	6.6-15.9	7.3-16.3
77 years	6.7-16.0	7.4-16.3
78 years	6.8-16.0	7.4-16.3
79 years	6.9-16.0	7.5-16.3

80 years	7.0-16.0	7.5-16.3
81 years	7.1-16.0	7.7-16.2
82 years	7.2-16.0	7.8-16.2
83 years	7.2-16.0	7.9-16.2
84 years	7.3-16.0	8.0-16.2
85 years	7.3-16.0	8.2-16.2
>85 years	7.4-16.0	8.3-16.2