**Test Definition: 2HGA** 2-Hydroxyglutaric Acid Chiral Analysis, Quantitative, Random,

Urine

### **Reporting Title:** D-,L- 2-Hydroxyglutaric Acid, QN, U **Performing Location:** Rochester

### **Necessary Information:**

1. Age and sex of patient are required.

ABORATORIES

2. Biochemical Genetics Patient Information (T602) is recommended, but not required, to be filled out and sent with the specimen to aid in the interpretation of test results.

### Specimen Requirements:

Supplies: Urine Tube, 10 mL (T068) Container/Tube: Plastic, 10-mL urine tube Specimen Volume: 10 mL Pediatric: If the collection volume appears insufficient, submit as much specimen as possible in a single container; the laboratory will determine if volume is sufficient for test. Collection Instructions: 1. Collect a random urine specimen (first morning void preferred)

2. No preservative

#### **Specimen Minimum Volume:**

1 mL

#### Forms:

1. Biochemical Genetics Patient Information (T602)

2. If not ordering electronically, complete, print, and send a Biochemical Genetics Test Request (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Urine	Frozen (preferred)	416 days	
	Ambient	14 days	
	Refrigerated	14 days	

#### Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
614619	Interpretation	Alphanumeric		79303-4



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Result ID	Reporting Name	Туре	Unit	LOINC®
614620	D-2-Hydroxyglutaric acid	Numeric	mmol/mol Cr	80100-1
614621	L-2-Hydroxyglutaric acid	Numeric	mmol/mol Cr	80099-5
614622	Reviewed By	Alphanumeric		18771-6

LOINC and CPT codes are provided by the performing laboratory.

#### **Supplemental Report:**

No

#### **CPT Code Information:**

83921 x 2

#### **Reference Values:**

Age	D-2-hydroxyglutaric acid (mmol/mol creatinine)	L-2-hydroxyglutaric acid (mmol/mol creatinine)
0-11 months	< or =14.11	< or =17.38
12-23 months	< or =13.76	< or =17.03
24-35 months	< or =13.38	< or =16.63
3 years	< or =12.96	< or =16.18
4 years	< or =12.20	< or =15.35
5 years	< or =11.40	< or =14.44
6 years	< or =10.56	< or =13.46
7 years	< or =9.71	< or =12.43
8 years	< or =8.93	< or =11.44
9 years	< or =8.21	< or =10.50
10 years	< or =7.56	< or =9.66
11 years	< or =6.99	< or =8.94
12 years	< or =6.47	< or =8.33
13 years	< or =6.01	< or =7.83
14 years	< or =5.60	< or =7.44
15 years	< or =5.23	< or =7.14



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16 years	< or =4.91	< or =6.93
17 years	< or =4.63	< or =6.78
18 years	< or =4.40	< or =6.69
19 years	< or =4.21	< or =6.63
20 years	< or =4.07	< or =6.60
21 years	< or =3.96	< or =6.59
22 years	< or =3.88	< or =6.58
23 years	< or =3.81	< or =6.56
24 years	< or =3.76	< or =6.54
25 years	< or =3.71	< or =6.50
26 years	< or =3.67	< or =6.44
27 years	< or =3.63	< or =6.37
28 years	< or =3.59	< or =6.27
29 years	< or =3.56	< or =6.15
30 years	< or =3.54	< or =6.02
31 years	< or =3.52	< or =5.87
32 years	< or =3.50	< or =5.72
33 years	< or =3.49	< or =5.57
34 years	< or =3.48	< or =5.41
35 years	< or =3.46	< or =5.26
36 years	< or =3.45	< or =5.13
37 years	< or =3.43	< or =5.00
38 years	< or =3.42	< or =4.88
39 years	< or =3.40	< or =4.78
40 years	< or =3.39	< or =4.70
41 years	< or =3.37	< or =4.62
42 years	< or =3.35	< or =4.55
43 years	< or =3.33	< or =4.50
44 years	< or =3.30	< or =4.44
45 years	< or =3.28	< or =4.40
46 years	< or =3.24	< or =4.35
47 years	< or =3.21	< or =4.31



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48 years	< or =3.17	< or =4.27
49 years	< or =3.13	< or =4.23
50 years	< or =3.10	< or =4.19
51 years	< or =3.07	< or =4.16
52 years	< or =3.04	< or =4.12
53 years	< or =3.01	< or =4.10
54 years	< or =2.99	< or =4.07
55 years	< or =2.97	< or =4.04
56 years	< or =2.95	< or =4.01
57 years	< or =2.93	< or =3.98
58 years	< or =2.91	< or =3.94
59 years	< or =2.89	< or =3.91
60 years	< or =2.87	< or =3.87
61 years	< or =2.85	< or =3.84
62 years	< or =2.83	< or =3.80
63 years	< or =2.79	< or =3.78
64 years	< or =2.76	< or =3.75
65 years	< or =2.71	< or =3.73
66 years	< or =2.67	< or =3.72
67 years	< or =2.61	< or =3.71
68 years	< or =2.56	< or =3.69
69 years	< or =2.50	< or =3.68
70 years	< or =2.44	< or =3.66
71 years	< or =2.38	< or =3.64
72 years	< or =2.32	< or =3.61
73 years	< or =2.26	< or =3.56
74 years	< or =2.21	< or =3.50
75 years	< or =2.16	< or =3.43
76 years	< or =2.10	< or =3.35
77 years	< or =2.05	< or =3.26
78 years	< or =2.00	< or =3.17
79 years	< or =1.94	< or =3.08



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80 years	< or =1.89	< or =2.99
81 years	< or =1.84	< or =2.91
82 years	< or =1.80	< or =2.84
83 years	< or =1.75	< or =2.78
84 years	< or =1.71	< or =2.73
85 years	< or =1.68	< or =2.69
86 years	< or =1.65	< or =2.67
87 years	< or =1.64	< or =2.65
88 years	< or =1.63	< or =2.64
> or =89 years	< or =1.62	< or =2.64