

**Reporting Title:** CDG, S

**Performing Location:** Mayo Clinic Laboratories - Rochester Main Campus

**Ordering Guidance:**

This test is for congenital disorders of glycosylation. If the ordering healthcare professional is looking for evaluation of alcohol abuse, order CDTA / Carbohydrate Deficient Transferrin, Adult, Serum.

If either PMM2-CDG (CDG-Ia) or MPI-CDG (CDG-Ib) is suspected, order PMMIL / Phosphomannomutase and Phosphomannose Isomerase, Leukocytes.

**Necessary Information:**

1. Patient's age is required.
2. Reason for testing is preferred.

**Specimen Requirements:**

**Supplies:** Sarstedt Aliquot Tube, 5 mL (T914)

**Collection Container/Tube:**

**Preferred:** Serum gel

**Acceptable:** Red top

**Submission Container/Tube:** Plastic vial

**Specimen Volume:** 0.1 mL Serum

**Collection Instructions:** Centrifuge and aliquot serum into a plastic vial.

**Forms:**

1. [Congenital Disorders of Glycosylation Patient Information](#)
2. If not ordering electronically, complete, print, and send a [Biochemical Genetics Test Request](#) (T798) with the specimen.

Specimen Type	Temperature	Time	Special Container
Serum	Frozen (preferred)	45 days	
	Ambient	7 days	
	Refrigerated	28 days	

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
CDG	BG160	Reason for Referral: <ul style="list-style-type: none"> <li>• Developmentally delayed</li> <li>• Congenital disorders of glycosylation</li> <li>• Follow-up of known patient with CDG</li> <li>• Evaluation of alcohol abuse - change test to 82425 (CDTA) Carb Def Transferrin, Adult, S</li> </ul>	Answer List	Yes

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
BG160	Reason for Referral	Alphanumeric		42349-1
31721	Mono-oligo/Di-oligo Ratio	Alphanumeric		35469-6
31720	A-oligo/Di-oligo Ratio	Alphanumeric		35475-3
50820	Interpretation	Alphanumeric		53808-2
50822	Reviewed By	Alphanumeric		18771-6
34474	Tri-sialo/Di-oligo Ratio	Alphanumeric		90420-1
34476	Apo CIII-1/Apo CIII-2 Ratio	Alphanumeric		90421-9
34475	Apo CIII-0/Apo CIII-2 Ratio	Alphanumeric		90419-3

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

**Supplemental Report:**

No

**CPT Code Information:**

82373

**Reference Values:**

Ratio	Normal	Indeterminate	Abnormal
Transferrin mono-oligo/di-oligo ratio	< or =0.06	0.07-0.09	> or =0.10
Transferrin A-oligo/di-oligo ratio	< or =0.011	0.012-0.021	> or =0.022
Transferrin tri-sialo/di-oligo ratio	< or =0.05	0.06-0.12	> or =0.13
Apo CIII-1/Apo CIII-2 ratio	< or =2.91	2.92-3.68	> or =3.69
Apo CIII-0/Apo CIII-2 ratio	< or =0.48	0.49-0.68	> or =0.69