

**Reporting Title:** Acylglycines, QN, U

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

**Additional Testing Requirements:**

Diagnostic specificity of inborn errors of metabolism via urine acylglycine testing is available only for selected inborn errors of metabolism; it is recommended that urine organic acids (OAU / Organic Acids Screen, Random, Urine) be ordered and assessed simultaneously due to the limited number of metabolites included in this urine acylglycine test.

**Necessary Information:**

1. Patient's age and sex are required.
2. Include family history, clinical condition (asymptomatic or acute episode), diet, and drug therapy information

**Specimen Requirements:**

**Supplies:** Urine Tubes, 10 mL (T068)

**Container/Tube:** Plastic, 10-mL urine tube

**Specimen Volume:** 10 mL

**Pediatric:** If insufficient collection volume, submit as much specimen as possible in a single container; the laboratory will determine if volume is sufficient for testing.

**Collection Instructions:**

1. Collect a random urine specimen.
2. No preservative.

**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	
	Refrigerated	9 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
608931	Interpretation	Alphanumeric		53718-3
608910	n-Acetylglycine	Numeric	mg/g Cr	99059-8
608911	n-Propionylglycine	Numeric	mg/g Cr	13800-8
608912	Isobutyrylglycine	Numeric	mg/g Cr	38360-4
608913	Ethylmalonic acid	Numeric	mg/g Cr	13741-4
608914	n-Butyrylglycine	Numeric	mg/g Cr	27892-9
608915	2-Methylsuccinic acid	Numeric	mg/g Cr	13777-8
608916	2-Methylbutyrylglycine	Numeric	mg/g Cr	27097-5
608917	Isovalerylglycine	Numeric	mg/g Cr	13766-1
608918	Glutaric acid	Numeric	mg/g Cr	13748-9

608919	3-Methylcrotonylglycine	Numeric	mg/g Cr	13691-1
608920	n-Tiglylglycine	Numeric	mg/g Cr	13816-4
608921	3-Methylglutaconic acid	Alphanumeric	mg/g Cr	13692-9
608922	n-Hexanoylglycine	Numeric	mg/g Cr	13753-9
608923	n-Octanoylglycine	Numeric	mg/g Cr	38367-9
608924	3-Phenylpropionylglycine	Numeric	mg/g Cr	13793-5
608925	trans-Cinnamoylglycine	Numeric	mg/g Cr	38417-2
608926	Suberylglycine	Numeric	mg/g Cr	13811-5
608927	Dodecanedioic acid	Numeric	mg/g Cr	13732-3
608928	Tetradecanedioic acid	Numeric	mg/g Cr	50333-4
608929	Hexadecanedioic acid	Numeric	mg/g Cr	50332-6
608930	Reviewed By	Alphanumeric		18771-6

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

**Supplemental Report:**

No

**CPT Code Information:**

82542

**Reference Values:**

- n-Acetylglycine:< or =3.50 mg/g Creatinine
- n-Propionylglycine:< or =2.25 mg/g Creatinine
- Isobutyrylglycine:< or =3.00 mg/g Creatinine
- Ethylmalonic acid:< or =25.00 mg/g Creatinine
- n-Butyrylglycine:< or =2.50 mg/g Creatinine
- 2-Methylsuccinic acid:< or =9.00 mg/g Creatinine
- 2-Methylbutyrylglycine:< or =2.00 mg/g Creatinine
- Isovalerylglycine:< or =8.00 mg/g Creatinine
- Glutaric acid:< or =8.00 mg/g Creatinine
- 3-Methylcrotonylglycine:< or =2.25 mg/g Creatinine
- n-Tiglylglycine:< or =9.00 mg/g Creatinine
- 3-Methylglutaconic acid:< or =25.00 mg/g Creatinine
- n-Hexanoylglycine:< or =2.00 mg/g Creatinine
- n-Octanoylglycine:< or =2.00 mg/g Creatinine
- 3-Phenylpropionylglycine:< or =2.00 mg/g Creatinine
- trans-Cinnamoylglycine:< or =5.50 mg/g Creatinine
- Suberylglycine:< or =5.00 mg/g Creatinine
- Dodecanedioic acid:< or =0.50 mg/g Creatinine
- Tetradecanedioic acid:< or =0.50 mg/g Creatinine
- Hexadecanedioic acid:< or =0.50 mg/g Creatinine