

**Reporting Title:** Creatine Disorders Panel, U

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

**Necessary Information:**

Patient's age and sex are required.

**Specimen Requirements:**

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

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

**Specimen Volume:** 1 mL

**Collection Instructions:**

1. Collect a random urine specimen.
2. Immediately freeze urine specimen.
3. If possible, **do not** send other tests ordered on same vial of urine. In doing so, the other tests may have increased turnaround time due to the strict frozen criteria of this assay.

**Forms:**

[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	29 days	

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
23383	Creatine	Numeric	nmol/mL	15046-6
23384	Creatinine	Numeric	nmol/mL	14683-7
23385	Guanidinoacetate	Numeric	nmol/mL	97148-1
23268	Creatine/Creatinine Ratio	Alphanumeric		34275-8
23270	Creatine Disorders Panel Interp	Alphanumeric		79292-9
23272	Reviewed By	Alphanumeric		18771-6

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

**Supplemental Report:**

No

**CPT Code Information:**

82540

82570

82542

**Reflex Tests:**

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CRBO	Creatine, (Bill Only), U	1	82540	Yes	No
CRNBO	Creatinine, (Bill Only), U	1	82570	Yes	No
GAABO	Guanidinoacetate, (Bill Only), U	1	82542	Yes	No

### Reference Values:

#### Males

Age	Creatinine (nmol/mL)	Guanidinoacetate (nmol/mL)	Creatine (nmol/mL)	Creatine/creatinine
< or =31 days	430-5,240	9-210	12-2,930	0.02-0.93
32 days-23 months	313-9,040	16-860	18-10,490	0.02-2.49
2-4 years	1,140-12,820	90-1,260	200-9,210	0.04-1.75
5-18 years	1,190-25,270	40-1,190	60-9,530	0.01-0.96
>18 years (male)	3,854-23,340	30-710	7-470	0.00-0.04

#### Females

Age	Creatinine (nmol/mL)	Guanidinoacetate (nmol/mL)	Creatine (nmol/mL)	Creatine/creatinine
< or =31 days	430-5,240	9-210	12-2,930	0.02-0.93
32 days-23 months	313-9,040	16-860	18-10,490	0.02-2.49
2-4 years	1,140-12,820	90-1,260	200-9,210	0.04-1.75
5-18 years	1,190-25,270	40-1,190	60-9,530	0.01-0.96
>18 years	1,540-18,050	30-760	5-2810	0.00-0.46