

**Reporting Title:** Catecholamine Fract, Free, U  
**Performing Location:** Rochester

**Specimen Requirements:**

Container/Tube: Plastic, 10-mL urine tube (Supply T068)

Specimen Volume: 2 mL

Collection Instructions:

1. Collect urine for 24 hours.
2. Add 25 mL of 50% acetic acid as preservative at start of collection. Use 15 mL of 50% acetic acid for children <5 years old. This preservative is intended to achieve a pH of between approximately 2 and 4.
3. This assay is of greatest value when the specimen is collected during a hypertensive episode.
4. Discontinue any epinephrine, norepinephrine, or dopamine injections/infusions at least 12 hours before specimen collection, unless drug monitoring is the goal.
5. Discontinue drugs that release or hinder metabolism of epinephrine, norepinephrine, or dopamine for at least 1 week before obtaining the specimen (see Cautions for details). If this is not possible for medical reasons, contact the laboratory to discuss whether a shorter drug-withdrawal period may be acceptable.
6. Do not perform the test on patients withdrawing from legal or illegal drugs known to cause rebound plasma catecholamine release during withdrawal (see Cautions for details).

Additional Information:

1. 24-Hour volume is required.
2. See Urine Preservatives in Special Instructions for multiple collections.

Urine Preservative Collection Options

- Ambient No
- Refrigerated Yes
- Frozen Yes
- 6N HCl Yes
- 50% Acetic Acid Preferred
- Na<sub>2</sub>CO<sub>3</sub> No
- Toluene No
- 6N HNO<sub>3</sub> Yes
- Boric Acid Yes
- Thymol Yes

Specimen Type	Temperature	Time
Urine	Refrigerated (preferred)	7 days
	Frozen	14 days
	Ambient	7 days

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

Test ID	Question ID	Description	Type	Reportable
CATU	TM48	Collection Duration	Plain Text	Yes
CATU	VL46	Urine Volume	Plain Text	Yes

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
TM48	Collection Duration	Alphanumeric		13362-9
VL46	Urine Volume	Alphanumeric		3167-4
2106	Norepinephrine	Numeric	mcg/24 h	2668-2
2107	Epinephrine	Numeric	mcg/24 h	2232-7
2108	Dopamine	Numeric	mcg/24 h	2218-6

**CPT Code:** 1 x 82384

**Reference Values:**

**EPINEPHRINE**

<1 year: <2.6 mcg/24 hours  
 1 year: <3.6 mcg/24 hours  
 2-3 years: <6.1 mcg/24 hours  
 4-9 years: 0.2-10.0 mcg/24 hours  
 10-15 years: 0.5-20.0 mcg/24 hours  
 > or =16 years: <21 mcg/24 hours

**NOREPINEPHRINE**

<1 year: <11 mcg/24 hours  
 1 year: 1-17 mcg/24 hours  
 2-3 years: 4-29 mcg/24 hours  
 4-6 years: 8-45 mcg/24 hours  
 7-9 years: 13-65 mcg/24 hours  
 > or =10 years: 15-80 mcg/24 hours

**DOPAMINE**

<1 year: <86 mcg/24 hours  
 1 year: 10-140 mcg/24 hours  
 2-3 years: 40-260 mcg/24 hours  
 > or =4 years: 65-400 mcg/24 hours