

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

Ordering Guidance:
This assay is of greatest value when the specimen is collected during a hypertensive episode.

Do not perform the test on patients withdrawing from legal or illegal drugs known to cause rebound catecholamine release during withdrawal (see Cautions for details).

This test is **not** a first-line test for pheochromocytoma. The recommended first-line laboratory tests for pheochromocytoma are PMET / Metanephrines, Fractionated, Free, Plasma; and METAF / Metanephrines, Fractionated, 24 Hour, Urine.

Necessary Information:
24-Hour volume (in milliliters) is required.

Specimen Requirements:
Patient Preparation:

- Discontinue drugs that release or hinder metabolism of epinephrine, norepinephrine, or dopamine for at least 1 week before specimen collection (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.
- Unless the reason for testing is drug monitoring, discontinue any epinephrine, norepinephrine, or dopamine injections or infusions for at least 12 hours before specimen collection.

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)

Collection Container: Plastic vial

Specimen Volume: 2 mL

Collection Instructions:

- Collect urine for 24 hours.
- Add 25 mL of 50% acetic acid as preservative at start of collection. Use 15 mL of 50% acetic acid for children less than 5 years old. This preservative is intended to achieve a pH of between approximately 2 and 4.

Additional Information: See [Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens](#) for multiple collections.

Forms:
If not ordering electronically, complete, print, and send an [Oncology Test Request](#) (T729) with the specimen.

Urine Preservative Collection Options:
Preservative must be added at the start of the collection.

Ambient (No additive)	No
Refrigerate (No additive)	No
Frozen (No additive)	No
50% Acetic Acid	Preferred
Boric Acid	OK
Diazolidinyl Urea	No

6M Hydrochloric Acid	OK
6M Nitric Acid	OK
Sodium Carbonate	No
Thymol	No
Toluene	No

Specimen Type	Temperature	Time	Special Container
Urine	Refrigerated (preferred)	28 days	
	Frozen	28 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	Alphanumeric	mcg/24 h	2668-2
2107	Epinephrine	Alphanumeric	mcg/24 h	2232-7
2108	Dopamine	Alphanumeric	mcg/24 h	2218-6

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

Supplemental Report:

No

CPT Code Information:

82384

Reference Values:

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

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

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

For SI unit Reference Values see www.mayocliniclabs.com/order-tests/si-unit-conversion.html