

Metanephrines, Fractionated, 24 Hour, Urine

Reporting Title: Metanephrines, Fractionated, 24h, U

Performing Location: Rochester

**Ordering Guidance:** 

### **Necessary Information:**

24-Hour volume (in milliliters) is required.

## **Specimen Requirements:**

**Patient Preparation:** Tricyclic antidepressants, labetalol, and sotalol medications may elevate levels of metanephrines producing results that cannot be interpreted. If clinically feasible, it is optimal to discontinue these medications at least 1 week before collection. For advice on assessing the risk of removing patients from these medications and alternatives, consider consultation with a specialist in endocrinology or hypertension.

**Supplies:** Urine Tubes, 10 mL (T068) **Container/Tube:** Plastic urine tube

**Specimen Volume:** 10 mL **Collection Instructions:** 

1. Add 10 g (pediatric: 3 g) of boric acid or 25 mL (pediatric: 15 mL) of 50% acetic acid as preservative at start of

collection.

2. Collect urine for 24 hours.

**Additional Information:** See <u>Urine Preservatives-Collection and Transportation for 24-Hour Urine Specimens</u> for multiple collections.

#### Forms:

If not ordering electronically, complete, print, and send 1 of the following forms with the specimen:

- -Oncology Test Request (T729)
- -Renal Diagnostics Test Request (T830)

### **Urine Preservative Collection Options:**

**Note:** The addition of preservative **must occur prior to the start of** the collection or application of temperature controls **must occur during collection**.

Ambient (no	No
additive)	
Refrigerate (no	ОК
additive)	
Frozen (no additive)	ОК
50% Acetic Acid	Preferred
Boric Acid	Preferred
Diazolidinyl Urea	No
6M Hydrochloric	ОК
Acid	
6M Nitric Acid	No
Sodium Carbonate	ОК
Thymol	No
Toluene	OK



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Specimen Type	Temperature	Time	Special Container
Urine	Ambient	28 days	
	Refrigerated (preferred)	28 days	
	Frozen	28 days	

## Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Туре	Reportable
METAF	TM50	Collection Duration (h)	Plain Text	Yes
METAF	VL48	Volume (mL)	Plain Text	Yes

## **Result Codes:**

Result ID	Reporting Name	Туре	Unit	LOINC®
8552	Metanephrine, U	Alphanumeric	mcg/24 h	104629-1
21545	Normetanephrine, U	Alphanumeric	mcg/24 h	104631-7
83006	Total Metanephrines, U	Alphanumeric	mcg/24 h	104630-9
TM50	Collection Duration (h)	Alphanumeric		13362-9
VL48	Volume (mL)	Alphanumeric		3167-4
2434	Comment	Alphanumeric		48767-8

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

## **Supplemental Report:**

No

### **CPT Code Information:**

83835

### **Reference Values:**

METANEPHRINE

Males

Normotensives

3-8 years: 29-92 mcg/24 h 9-12 years: 59-188 mcg/24 h 13-17 years: 69-221 mcg/24 h > or =18 years: 44-261 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <400 mcg/24 h

Females

Normotensives

3-8 years: 18-144 mcg/24 h



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9-12 years: 43-122 mcg/24 h 13-17 years: 33-185 mcg/24 h > or =18 years: 30-180 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <400 mcg/24 h

#### **NORMETANEPHRINE**

Males

Normotensives

3-8 years: 34-169 mcg/24 h 9-12 years: 84-422 mcg/24 h 13-17 years: 91-456 mcg/24 h 18-29 years: 103-390 mcg/24 h 30-39 years: 111-419 mcg/24 h 40-49 years: 119-451 mcg/24 h 50-59 years: 128-484 mcg/24 h 60-69 years: 138-521 mcg/24 h > or =70 years: 148-560 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <900 mcg/24 h

**Females** 

Normotensives

3-8 years: 29-145 mcg/24 h 9-12 years: 55-277 mcg/24 h 13-17 years: 57-286 mcg/24 h 18-29 years: 103-390 mcg/24 h 30-39 years: 111-419 mcg/24 h 40-49 years: 119-451 mcg/24 h 50-59 years: 128-484 mcg/24 h 60-69 years: 138-521 mcg/24 h > or =70 years: 148-560 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <900 mcg/24 h

**TOTAL METANEPHRINE** 

Males

Normotensives

3-8 years: 47-223 mcg/24 h 9-12 years: 201-528 mcg/24 h 13-17 years: 120-603 mcg/24 h 18-29 years: 190-583 mcg/24 h



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30-39 years: 200-614 mcg/24 h 40-49 years: 211-646 mcg/24 h 50-59 years: 222-680 mcg/24 h 60-69 years: 233-716 mcg/24 h > or =70 years: 246-753 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <1,300 mcg/24 h

#### **Females**

Normotensives

3-8 years: 57-210 mcg/24 h 9-12 years: 107-394 mcg/24 h 13-17 years: 113-414 mcg/24 h 18-29 years: 142-510 mcg/24 h 30-39 years: 149-535 mcg/24 h 40-49 years: 156-561 mcg/24 h 50-59 years: 164-555 mcg/24 h 60-69 years: 171-616 mcg/24 h > or =70 years: 180-646 mcg/24 h

Reference values have not been established for patients that are younger than 36 months.

Hypertensives: <1,300 mcg/24 h

For International System of Units (SI) conversion for Reference Values, see <a href="https://www.mayocliniclabs.com/order-tests/si-unit-conversion.html">www.mayocliniclabs.com/order-tests/si-unit-conversion.html</a>