

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:

- Collect urine for 24 hours.
- 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.

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:

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
Refrigerate	OK
Frozen	OK
50% Acetic Acid	Preferred
Boric Acid	Preferred
Diazolidinyl Urea	No
6M Hydrochloric Acid	OK
6M Nitric Acid	OK
Sodium Carbonate	OK
Thymol	No
Toluene	OK

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

	Ambient	28 days	
	Frozen	28 days	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
METAF	TM50	Collection Duration	Plain Text	Yes
METAF	TM50	Collection Duration	Plain Text	Yes
METAF	VL48	Urine Volume	Plain Text	Yes
METAF	VL48	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
8552	Metanephrine, U	Alphanumeric	mcg/24 h	19049-6
21545	Normetanephrine, U	Alphanumeric	mcg/24 h	2671-6
83006	Total Metanephrines, U	Alphanumeric	mcg/24 h	2609-6
TM50	Collection Duration	Alphanumeric		13362-9
VL48	Urine Volume	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 hours

9-12 years: 59-188 mcg/24 hours

13-17 years: 69-221 mcg/24 hours

> or =18 years: 44-261 mcg/24 hours

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

Hypertensives: <400 mcg/24 hours

Females

Normotensives

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

9-12 years: 43-122 mcg/24 hours
13-17 years: 33-185 mcg/24 hours
> or =18 years: 30-180 mcg/24 hours
Reference values have not been established for patients that are younger than 36 months of age.

Hypertensives: <400 mcg/24 hours

NORMETANEPHRINE

Males

Normotensives

3-8 years: 34-169 mcg/24 hours
9-12 years: 84-422 mcg/24 hours
13-17 years: 91-456 mcg/24 hours
18-29 years: 103-390 mcg/24 hours
30-39 years: 111-419 mcg/24 hours
40-49 years: 119-451 mcg/24 hours
50-59 years: 128-484 mcg/24 hours
60-69 years: 138-521 mcg/24 hours
> or =70 years: 148-560 mcg/24 hours
Reference values have not been established for patients that are younger than 36 months of age.

Hypertensives: <900 mcg/24 hours

Females

Normotensives

3-8 years: 29-145 mcg/24 hours
9-12 years: 55-277 mcg/24 hours
13-17 years: 57-286 mcg/24 hours
18-29 years: 103-390 mcg/24 hours
30-39 years: 111-419 mcg/24 hours
40-49 years: 119-451 mcg/24 hours
50-59 years: 128-484 mcg/24 hours
60-69 years: 138-521 mcg/24 hours
> or =70 years: 148-560 mcg/24 hours
Reference values have not been established for patients that are younger than 36 months of age.

Hypertensives: <900 mcg/24 hours

TOTAL METANEPHRINE

Males

Normotensives

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

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

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

Hypertensives: <1,300 mcg/24 hours

Females

Normotensives

3-8 years: 57-210 mcg/24 hours
9-12 years: 107-394 mcg/24 hours
13-17 years: 113-414 mcg/24 hours
18-29 years: 142-510 mcg/24 hours
30-39 years: 149-535 mcg/24 hours
40-49 years: 156-561 mcg/24 hours
50-59 years: 164-588 mcg/24 hours
60-69 years: 171-616 mcg/24 hours
> or =70 years: 180-646 mcg/24 hours

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

Hypertensives: <1,300 mcg/24 hours

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