

Metanephrines with 3-Methoxytyramine, 24 Hour, Urine

Reporting Title: Metanephrines with 3-MT, 24h, U

Performing Location: Rochester

Ordering Guidance:

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.

Necessary Information:

24-Hour volume (in milliliters) is required.

Specimen Requirements:

Supplies: Urine Tubes, 10 mL (T068)

Submission Container/Tube: Plastic urine tube

Specimen Volume: 10 mL Collection Instructions:

- 1. Complete 24-hour urine collections are preferred, especially for patients with episodic hypertension; ideally the collection should begin at the onset of a "spell."
- 2. Collect urine for 24 hours.
- 3. 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.

Specimen Minimum Volume:

4 mL

Urine Preservative Collection Options:

Note: The addition of preservative or application of temperature controls must occur at the start of the collection.

Ambient OK
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

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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	Туре	Reportable
METAF	TM50	Collection Duration	Plain Text	Yes
METAF	VL48	Urine Volume	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
609422	3-Methoxytyramine, U	Alphanumeric	mcg/24 h	32618-1
	Also used by tests: 3MT1			
8552	Metanephrine, U	Alphanumeric	mcg/24 h	19049-6
	Also used by tests: METAF			
21545	Normetanephrine, U	Alphanumeric	mcg/24 h	2671-6
	Also used by tests: METAF			
83006	Total Metanephrines, U	Alphanumeric	mcg/24 h	2609-6
	Also used by tests: METAF			
TM50	Collection Duration	Alphanumeric		13362-9
	Also used by tests: METAF			
VL48	Urine Volume	Alphanumeric		3167-4
	Also used by tests: METAF			
2434	Comment	Alphanumeric		48767-8
	Also used by tests: METAF			

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No



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Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
3MT1	3-Methoxytyramine, U			Yes	Yes (Order 3MT)
METAF	Metanephrines, Fractionated, 24h, U			Yes	Yes

CPT Code Information:

82542 83835

Reference Values:

3-Methoxytyramine:

Males: < or =306 mcg/24 hours Females: < or =242 mcg/24 hours

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 <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 <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



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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 <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 <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 <36 months of age.

Hypertensives: <1300 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 <36 months of age.

Hypertensives: <1300 mcg/24 hours

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