

HOTLINE: Effective November 18, 2019

2007996

Metanephrines Fractionated by HPLC-MS/MS, Urine

META URINE

Specimen Required: Patient Prep: If possible, abstain from medications for 72 hours prior to collection.

Collect: 24-hour or random urine. Refrigerate 24-hour specimen during collection.

Specimen Preparation: Thoroughly mix entire collection (24-hour or Random) in one container. Transfer a 4 mL aliquot to an ARUP Standard Transport Tube. (Min: 2.5 mL) A pH lower than 2 can cause assay interference. Record total volume and collection time interval on transport tube and test request form.

Specimen preservation can be extended to 1 month refrigerated by performing one of the following:

Option 1: Transfer a 4 mL aliquot to an ARUP Standard Transport Tube. (Min: 2.5 mL) Adjust pH to 2.0-4.0 with 6M HCl.

Option 2: Transfer a 4 mL aliquot to an ARUP Standard Transport Tube containing 20 mg sulfamic acid (ARUP Supply #48098), available online through eSupply using ARUP Connect™ or contact ARUP Client Services at (800) 522-2787. (Min: 2.5 mL)

Storage/Transport Temperature: Refrigerated. Also acceptable: Frozen.

Unacceptable Conditions: Specimens preserved with boric acid or acetic acid.

Stability (collection to initiation of testing): Ambient: Unacceptable; Refrigerated: 2 weeks (unpreserved), 1 month (preserved); Frozen: 1 month

Reference Interval:

Reference Intervals for 24 Hour Calculations (24-Hour Urine)

Test Number	Components	Reference Interval			
	Metanephrine	Effective November 18, 2019			
		Male Age	Male Range	Female Age	Female Range
		0-6 years	Not Established	0-6 years	Not Established
		7-12 years	45-273 µg/d	7-17 years	40-209 µg/d
		13-17 years	56-298 µg/d	18 years and older	36-229 µg/d
		18 years and older	55-320 µg/d		
	Normetanephrine	Effective November 18, 2019			
		Male Age	Male Range	Female Age	Female Range
		0-6 years	Not Established	0-6 years	Not Established
		7-12 years	58-670 µg/d	7-12 years	48-474 µg/d
		13-17 years	82-553 µg/d	13-17 years	65-406 µg/d
		18-29 years	81-667 µg/d	18 years and older	95-650 µg/d
0020473	Creatinine, Urine - per 24h				
		Age	Male	Female	
		3-8 years	140-700 mg/d	140-700 mg/d	
		9-12 years	300-1300 mg/d	300-1300 mg/d	
		13-17 years	500-2300 mg/d	400-1600 mg/d	
		18-50 years	1000-2500 mg/d	700-1600 mg/d	
		51-80 years	800-2100 mg/d	500-1400 mg/d	
		81 years and older	600-2000 mg/d	400-1300 mg/d	

Reference Intervals for Ratio-to-Creatinine (CRT) Calculations (Random Urine)

Components	Reference Interval	
Metanephrine	Age	Metanephrine
	0-3 months	0-700 µg/g crt
	4-6 months	0-650 µg/g crt
	7-11 months	0-650 µg/g crt
	1 year	0-530 µg/g crt
	2-5 years	0-500 µg/g crt
	6-17 years	0-320 µg/g crt
	18 years and older	0-300 µg/g crt
Normetanephrine	Age	Normetanephrine
	0-3 months	0-3400 µg/g crt
	4-6 months	0-2200 µg/g crt
	7-11 months	0-1100 µg/g crt
	1 year	0-1300 µg/g crt
	2-5 years	0-610 µg/g crt
	6-17 years	0-450 µg/g crt
	18 years and older	0-400 µg/g crt