

0080407

Catecholamines Fractionated by LC-MS/MS, Urine Free

CATE UF

Specimen Required: Patient Prep: Drugs and medications may affect results and should be discontinued for at least 72 hours prior to specimen collection, if possible.

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) Catecholamines are not stable above pH 7. The pH of such specimens must be adjusted by the addition of 6M HCl acid or sulfamic acid prior to transport. A pH less than 2 can cause assay **interference**.

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 and adjust pH to 2.0-4.0 with 6M HCl. (Min: 2.5 mL)

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.

Remarks: Record total volume and collection time interval on transport tube and test request form.

Unacceptable Conditions: Specimens preserved with boric acid or acetic acid. Specimens with pH greater than 7.

Stability (collection to initiation of testing): **Unpreserved:** Ambient: Unacceptable; Refrigerated: 1 week; Frozen: Undefined

Preserved: Ambient: Unacceptable; Refrigerated: 1 month; Frozen: 6 months

Reference Interval:

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

Test Number	Components	Reference Interval		
	Dopamine	Effective November 18, 2019		
		Age	Dopamine	
		0-3 years	Not Established	
		4-10 years	80-440 µg/d	
		11-17 years	100-496 µg/d	
	18 years and older	71-485 µg/d		
	Epinephrine	Effective August 19, 2019		
		Age	Epinephrine	
		0-3 years	Not Established	
		4-10 years	1-14 µg/d	
		11-17 years	1-18 µg/d	
	18 years and older	1-14 µg/d		
	Norepinephrine	Effective November 18, 2019		
		Age	Norepinephrine	
		0-3 years	Not Established	
		4-10 years	7-65 µg/d	
		11-17 years	12-96 µg/d	
	18 years and older	14-120 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)

Test Number	Components	Age	Reference Interval
	Dopamine	0-11 months	240-1290 µg/g crt
		1-3 years	80-1220 µg/g crt
		4-10 years	220-720 µg/g crt
		11-17 years	120-450 µg/g crt
		18 years and older	0-250 µg/g crt
	Epinephrine	0-11 months	0-380 µg/g crt
		1-3 years	0-82 µg/g crt
		4-10 years	5-93 µg/g crt
		11-17 years	3-58 µg/g crt
		18 years and older	0-20 µg/g crt
	Norepinephrine	0-11 months	25-310 µg/g crt
		1-3 years	25-290 µg/g crt
		4-10 years	27-110 µg/g crt
		11-17 years	4-105 µg/g crt
		18 years and older	0-45 µg/g crt