



A LabCorp Company

April 3, 2010

## **Endocrinology Service Update: Methodology & Reference Range Change**

**Test Title:** Catecholamines, Total Urine

**Test Code:** 500060 (no change)

**CPT Code:** 82384 (no change)

**Effective Date:** May 17, 2010

**Explanation of change:** The methodology for Total Urine Catecholamines will change to HPLC with Tandem Mass Spectrometry.

Urine Catecholamines are important to measure for patients with suspected pheochromocytomas, and results can be used to detect and monitor treatment of these patients.

**Note:** In conjunction with the method change (effective May 17, 2010), the reference interval and specimen requirements will be revised. Please refer to the attached chart for the updated information.

For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Method		New Method	
Assay Method	Catecholamines, Total Urine by HPLC with electrochemical detection (ECD)		Catecholamines, Total Urine by HPLC-MS/MS	
Reference Range	RANGE (ug/24 hrs)	RANGE (ug/g creat.)	RANGE (ug/24 hrs)	RANGE (ug/g creat.)
	INFANTS <1 Year: Not Determined	34 – 286	0 – 9 Years: < 66	< 204
	CHILDREN 1 – 9 Years: Not Determined	16 – 255	10 – 19 Years: < 108	< 85
	OLDER CHILDREN AND ADULTS	30 – 118	≥ 20 Years: < 144	< 113
Assay Set frequency	Monday and Thursday (2 days per week)			
Preferred Sample Requirement	50 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid.			
Pediatric Minimum Sample Requirement	5 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid			

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**Endocrinology Service Update: Methodology & Reference Range Change**

**Test Title:** Catecholamines, Fractionated Urine

**Test Code:** 500062 (no change)

**CPT Code:** 82384 (no change)

**Effective Date:** May 17, 2010

**Explanation of change:** The methodology for Fractionated Urine Catecholamines will change to HPLC with Tandem Mass Spectrometry.

Urine Catecholamines are important to measure for patients with suspected pheochromocytomas, and results can be used to detect and monitor treatment of these patients.

**Note:** In conjunction with the method change (effective May 17, 2010), the reference intervals and specimen requirements will be revised. Please refer to the attached chart for the updated information.

For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Method		New Method	
Assay Method	Catecholamines, Fractionated Urine by HPLC with electrochemical detection (ECD)		Catecholamines, Fractionated Urine by HPLC-MS/MS	
Reference Range	RANGE (ug/24 hrs)	RANGE (ug/g creat.)	RANGE (ug/24 hrs)	RANGE (ug/g creat.)
	<u>NOREPINEPHRINE</u>		<u>NOREPINEPHRINE</u>	
	INFANTS < 1 Year: Not Determined	37 – 195	0 – 9 Years: < 60	< 151
	CHILDREN 1-10 Years: Not Determined	24 – 140	10 – 19 Years: < 91	< 68
	OLDER CHILDREN AND ADULTS: 16 – 125	12 – 110	≥ 20 Years: < 136	< 112
	<u>EPINEPHRINE</u>		<u>EPINEPHRINE</u>	
	INFANTS < 1 Year: Not Determined	2 – 180	0 – 9 Years: < 12	< 38
	CHILDREN 1-10 Years: Not Determined	20 – 149	10 – 19 Years: < 19	< 18
	OLDER CHILDREN AND ADULTS: 3 – 38	9 – 25	≥ 20 Years: < 21	< 20
	Pediatric values were determined on both random and 8 hour urine collections.			
Assay Set frequency	Monday and Thursday (2 days per week)			
Preferred Sample Requirement	50 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid.			
Pediatric Minimum Sample Requirement	5 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid			

April 3, 2010

**Endocrinology Service Update: Methodology & Reference Range Change**

**Test Title:** Dopamine, Urine

**Test Code:** 500138 (no change)

**CPT Code:** 82384 (no change)

**Effective Date:** May 17, 2010

**Explanation of change:** The methodology for Urine Dopamine will change to HPLC with Tandem Mass Spectrometry.

Urine Dopamine can be used to measure for patients with suspected pheochromocytomas and/or neuroblastomas.

**Note:** In conjunction with the method change (effective May 17, 2010), the reference interval and specimen requirements will be revised. Please refer to the attached chart for the update information.

For additional information, please call us at (800) 444-9111. We value you as a customer and thank you for choosing Esoterix.

Description	Predicate Method		New Method	
Assay Method	Dopamine, Urine by HPLC with electrochemical detection (ECD)		Dopamine, Urine by HPLC-MS/MS	
Dopamine Urine Reference Range	RANGE (ug/24 hrs)	RANGE (ug/g creat.)	RANGE (ug/24 hrs)	RANGE (ug/g creat.)
	0 – 11 Mo: Not Determined	160 – 2350	0 – 9 Years: < 415	< 1489
	12 – 23 Mo: Not Determined	290 – 1950		
	24 Mo – 7 Yrs: Not Determined	210 – 1470	10 – 19 Years: < 576	< 355
	8 – 14 Years: Not Determined	140 – 1300		
	ADULTS: 60 – 580	75 – 520	≥ 20 Years: < 511	< 349
Assay Set frequency	Monday and Thursday (2 days per week)			
Preferred Sample Requirement	50 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid.			
Pediatric Minimum Sample Requirement	5 mL well-mixed urine with 6N HCl. Collect urine in 2 qt plastic bottle containing 25 mL 6N HCl. Indicate 24-hour volume. Patients should be given two containers and instructed to avoid direct contact with collection bottles or bags containing preservatives, especially hydrochloric acid.			