

Test Definition: CATPA

Catecholamine, Endocrine Study, Plasma

Reporting Title: Catecholamine, Endocrine Study, P

Performing Location: Rochester

Ordering Guidance:

This test is not the first-tier test for pheochromocytoma, as plasma catecholamine levels may not be continuously elevated. For the recommended first-tier laboratory test for pheochromocytoma, order either:

- -PMET / Metanephrines, Fractionated, Free, Plasma
- -METAF / Metanephrines, Fractionated, 24 Hour, Urine

Do not perform the test on patients withdrawing from legal or illegal drugs known to cause rebound plasma catecholamine release during withdrawal (see Cautions for additional information).

Specimen Requirements:

Patient Preparation:

- 1. Discontinue drugs that release epinephrine, norepinephrine, or dopamine, or hinder their metabolism, for at least 1 week before obtaining the specimen (see Cautions for details). If this is not possible for medical reasons, contact the laboratory and discuss whether a shorter drug-withdrawal period may be possible in a particular case.
- 2. Unless the purpose of the measurement is drug monitoring, discontinue any epinephrine, norepinephrine, or dopamine injections/infusions for at least 12 hours before specimen draw.
- 3. The patient must refrain from eating, using tobacco, and drinking caffeinated beverages for at least 4 hours before the specimen is collected.

Supplies: Catecholamine tubes containing EDTA-sodium metabisulfite solution (T066) (tubes have a 6-month. expiration time)

Collection Container/Tube:

Preferred: 10-mL Catecholamine tubes containing EDTA-sodium metabisulfite solution **Acceptable:** 6-mL Catecholamine tubes containing EDTA-sodium metabisulfite solution

Submission Container/Tube: Plastic vial **Specimen Volume:** 3 mL per collection

Collection Instructions:

- 1. Drawing from a catheter is required.
- 2. Calm the patient by giving complete instructions and reassurance regarding the procedure.
- 3. Insert an indwelling intravenous catheter. Flush with 3 mL of saline, using positive pressure.
- 4. Have the patient rest for 30 minutes in the supine position in a quiet room.
- 5. At the end of the 30 minutes, withdraw and discard a minimum of 3 mL of blood to remove the saline out of the catheter.
- 6. If provocative sampling (eg, standing specimen) is required, perform provocative maneuver immediately after obtaining supine specimen. Obtain standing specimen immediately.
- 7. For each specimen, draw blood into the chilled EDTA-sodium metabisulfite 10-mL tube.
- 8. Specimen must remain at refrigerated temperature during processing and transport.
- 9. Separate plasma in a refrigerated centrifuge within 30 minutes of draw.
- 10. Freeze specimen immediately.

Specimen Type	Temperature	Time	Special Container
Plasma EDTA Meta	Frozen	28 days	



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Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
33862	Norepinephrine, Supine	Numeric	pg/mL	1601-4
33863	Epinephrine, Supine	Numeric	pg/mL	1465-4
33864	Dopamine, Supine	Numeric	pg/mL	95053-5
33865	Norepinephrine, Standing	Numeric	pg/mL	17368-2
33866	Epinephrine, Standing	Numeric	pg/mL	95054-3
33867	Dopamine, Standing	Numeric	pg/mL	95055-0

LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

Components:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
CTP0	Catecholamine, Fract, Supine, P	1	82384	Yes	No
CTP10	Catecholamine, Fract, Standing, P	1	82384	Yes	No

CPT Code Information:

82384 x 2

Reference Values:

NOREPINEPHRINE Supine: 70-750 pg/mL Standing: 200-1,700 pg/mL

EPINEPHRINE

Supine: Undetectable-110 pg/mL Standing: Undetectable-140 pg/mL

DOPAMINE

<30 pg/mL (no postural change)