

Metanephrine and Normetanephrine

• Metanephrine in plasma

General:

Metanephrine, a reduction product of epinephrine, plays an important role in the diagnostics of tumors of the sympathoadrenal system. An increased concentration in plasma or an increased secretion in urine is detectable in such cases. To be more precise, both catecholamines and the reduced products should be detected.

Material: 2 ml EDTA plasma, **frozen**

TAT: 7-10 days*

Method: LCMS

Units: pg/ml

Ref.- range: <90.0

Note: Overnight fasting is preferred. Patient should avoid alcohol, coffee, tea, tobacco, and strenuous exercise before collection.

• Metanephrine in urine

Material: 10 ml urine

Preanalytics: 24 hour urine, collected with 10 ml of concentrated HCl; pH must be below 3.0!
Please indicate total urine quantity.

TAT: 7-10 days*

Method: HPLC

Units: µg/24h

Ref.- range: < 300

Note: Overnight fasting is preferred. Patient should avoid alcohol, coffee, tea, tobacco, and strenuous exercise before collection.

In cases of suspecting pheochromocytoma we recommend to test for VMA, epinephrine, dopamine and normetanephrine, in acidified (HCl) 24 hour urine. The following medication should be stopped 8 days before and during urine collection: alpha-methyldopa, clonidine, guanethidine, reserpin, β-blocker, quinidine, ampicillin, erythromycin and tetracycline. The following food/drinks should be avoided 2 days before and during the collection: coffee, black tea, cookies, cake, bananas and cheese.

- **Normetanephrine in plasma**

Material: 2 ml EDTA plasma, **frozen**

TAT: 7-10 days*

Method: LCMS

Units: pg/ml

Ref.- range: <180.0

Note: Overnight fasting is preferred. Patient should avoid alcohol, coffee, tea, tobacco, and strenuous exercise before collection.

- **Normetanephrine in urine**

General:

Normetanephrine plays, as metanephrine, an important role as a reduction product of norepinephrine in the diagnostics of tumors of the sympathosuprarenal system. Increased synthesis and release of catecholamines by the tumors results in increased concentration in plasma as well as increased elimination of catecholamines and their metabolites into the urine.

Indication: Hypertonia

Preanalytics: 24 h urine collected with HCl, please indicate quantity!

Material: 10 ml urine

TAT: 7-10 days*

Method: HPLC

Units: µg/24h

Ref.- range: < 400

Note: Overnight fasting is preferred. Patient should avoid alcohol, coffee, tea, tobacco, and strenuous exercise before collection.

In cases of suspecting pheochromocytoma we recommend to test for VMA, epinephrine, dopamine and normetanephrine, in acidified (HCl) 24 hour urine. The following medication should be stopped 8 days before and during urine collection: alpha-methyldopa, clonidine, guanethidine, reserpin, βblocker, quinidine, ampicillin, erythromycin and tetracycline. The following food/drinks should be avoided 2 days before and during the collection: coffee, black tea, cookies, cake, bananas and cheese.

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit

<http://www.fml-dubai.com/parameter-listings/>