



Freiburg Medical Laboratory ME LLC, P.O.Box 3068, Dubai

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# Norepinephrine

General:

Catecholamines are produced in brain, adrenal medulla, in extrarenal chromatic tissue as well as in sympathetic nerve endings (norsuprarenalin). The determination of adrenaline and noradrenaline as well as their reduction products (vanillyl mandelic acid, metanephrines, homovanillic acid) is im-portant for the diagnostics of tumors of the sympatho-suprarenal system.

The following tests are available:

## • Adrenaline (Epinephrine) in plasma

Indication: suspicion of phaeochromocytoma, neuroblastoma, ganglioneuroma, arterial hy-pertension

Material: 1 ml EDTA-plasma

Preanalytics: EDTA- or heparin-plasma, frozen!

TAT: 7-10 days\*

Method: HPLC

Units: ng/l

Ref.- range: <110

Note: determination in urine is more specific than in plasma

## • Noradrenaline (Norepinephrine) in plasma

Material: 1 ml EDTA-plasma Preanalytics: EDTA- or heparin-plasma, frozen! TAT: 7-10 days\* Method: HPLC Units: ng/l Ref.- range: <500 Note: determination in urine is more specific than in plasma

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#### Dopamine in plasma

Material: 1 ml EDTA-plasma

Preanalytics: EDTA- or heparin-plasma, frozen!

TAT: 7-10 days\*

Method: HPLC

Units: ng/l

Ref.- range: <100

Note: determination in urine is more specific than in plasma

#### • Adrenaline (Epinephrine), in urine

Indication: suspicion of phaeochromocytoma, neuroblastoma, ganglioneuroma, arterial hy-pertension

Material: 10 ml 24-hour-urine

- Preanalytics: please indicate total volume, add 10 ml of concentrated HCl into the 24 hourcollecting container prior to collection.
  - TAT: 7-10 days\*
  - Method: HPLC

Units: µg/l

Ref.- range: 4 – 20, children <6 years approx. 1/3 of those values

Note: Determination in urine is more specific than in plasma.

The following medication should be stopped 8 days before and during urine collection:  $\alpha$ -methyldopa, clonidine, guanethidine, reserpine,  $\beta$ -blocker, quinidine-containing preparations, ampicillin, erythromycin and tetracycline. The following food products should be avoided 2 days before and during urine collection: coffee, black tea, bananas and cheese.

#### • Noradrenaline (Norepinephrine) in urine

Indication: suspicion of phaeochromocytoma, neuroblastoma, ganglioneuroma, arterial hy-pertension

Material: 10 ml 24-hour-urine

please indicate total volume, add 10 ml of concentrated HCl into the 24 hour-

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Preanalytics: collecting container prior to collection.

TAT: 7-10 days\*

Method: HPLC

Units: µg/l

Ref.- range: 23 – 105, children <6 years approx. 1/3 of those values Note: see above (adrenaline)

# Dopamine in urine

General:

Dopamine has alpha- and beta-sympathomimetic characteristics. It increases the kid-ney blood circulation, urine secretion and CMO (cardiac minute output). Beside vanillyl mandelic acid (VMA), metanephrine, homovanillic acid (HVA), epinephrine and norepinephrine it belongs to the catecholamines and is biotransformed to homovanillic acid. The determination is important for diag-nostics of tumors of the adrenal system. Function tests (e.g. clonidine test) are additionally recommended.

Indication: suspicion of neuroblastoma, pheochromocytoma or ganglioneuroma, arterial hypertension clarification

Material: 10 ml 24-hour-urine

Preanalytics: please indicate total volume, add 10 ml of concentrated HCl into the 24 hourcollecting container prior to collection.

- TAT: 7-10 days\*
- Method: HPLC
  - Units: µg/l
- Ref.- range: 190 450

Note: see above (adrenaline)

For complete list of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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