

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

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# Epinephrine

#### 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 examinations are

### Adrenaline (Epinephrine) in plasma

Indication: suspicion of phaeochromocytoma, neuroblastoma, ganglioneuroma, arterial

hy-pertension.

Material: 2 ml EDTA plasma frozen

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: 2 ml EDTA plasma frozen

Method: HPLC

Units: ng/l

Ref.- range: <500







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#### Dopamine in plasma

Material: 2 ml EDTA plasma frozen

Method: HPLC

Units: ng/l

Ref.- range: <100

Note: The determination of catecholamines in 24 hours urine is of higher

significance.

## 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 hour-

collecting container prior to collection.

Method: HPLC

Units: µg/l

Ref.- range: 4 - 20 children up to 6 years: approx. 1/3

Note: The determination in urine is more significant than the determination in plasma.

If possible the following drugs should be stopped 8 days before and during the urine collection period:  $\alpha$ -methyldopa, clonidine, guanethidine, reserpine,  $\beta$ -blockers, and preparations containing quinidine, ampicillin, erythromycin or tetracycline. Several contrast media can cause in-vitro interferences with determination of catecholamines and their metabolites in urine. Following foods must be strictly avoided 2 days before and during urine collection period: coffee,

black tea, bananas, cheese, cookies, cake and chocolate.



Page 2 of 3

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# Noradrenaline (Norepinephrine) in urine

Material: 10 ml 24-hour-urine

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

collecting container prior to collection.

Method: HPLC Units: μg/l

Ref.- range: 23 - 105 children up to 6 years: approx. 1/3

## • 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 vanilly 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 hour-

collecting container prior to collection.

Method: HPLC Units: µg/l

Ref.- range: 190 - 450

Note: 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.

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

Page 3 of 3 Updated 24/03/2025

