

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

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# Catecholamines

#### 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, Frozen

Preanalytics: EDTA- or heparin-plasma, frozen!

TAT: 7-10 days\*

Method: HPLC

Units: ng/l

Ref.- range: <90

Note: determination in urine is more specific than in plasma

# Noradrenaline (Norepinephrine) in plasma

Material: 2 ml EDTA-plasma, Frozen

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



Page 1 of 3

Updated 30/11/2022



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## Dopamine in plasma

Material: 2 ml EDTA-plasma

Preanalytics: EDTA- or heparin-plasma, frozen!

TAT: 7-10 days\*

Method: HPLC

Units: ng/l

Ref.- range: <85

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 hour-

collecting container prior to collection.

TAT: 7-10 days\*

Units: µg/24h

Method: HPLC

Ref.- range: <20

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.



Page 2 of 3

Updated 30/11/2022



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## Noradrenaline (Norepinephrine) 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.

Units: µg/24h

TAT: 7-10 days\*

Method: HPLC

Ref.- range: <15.0 - 79.0

#### 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.

Units: µg/24h

TAT: 7-10 days\*

Method: HPLC

Ref.- range: see report

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 30/11/2022

