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Microglobulin

The following tests are available:

• Alpha-1-microglobulin in urine

General:

Alpha-1-microglobulin is filtered in glomeruli and reabsorbed in tubuli. The quantitative investigation of alpha-1-microglobulin in urine gives an estimation of tubular reabsorptive capacity.

Indication: Diseases with suspicion of dysfunction of tubular reabsorption. Preanalytics: 24 h collection period, please indicate collected urine quantity!

Material: 10 ml urine TAT: 5-7 days*

Method: nephelometry

Units: mg/l

Ref.- range: adult : < 8.0 up to 12.0

• Alpha-1-microglobulin in serum

General:

Alpha-1-microglobulin is filtered in glomeruli and reabsorbed in tubuli. The quantitative investigation of alpha-1-microglobulin in urine gives an estimation of tubular reabsorptive capacity.

Indication: Suspicion of restricted kidney function (independent of creatinine level),

transplant control

Material: 1 ml serum
TAT: 5-7 days*

Method: nephelometry

Units: mg/l

Ref.- range: 20.0 - 45.0

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Beta-2-microglobulin in serum

Indication: tumor monitoring, dialysis control

Material: 1 ml serum
TAT: 7-10 days*
Method: nephelometry

Units: mg/l

Ref.- range: see report

Note: When interpreting the β-2-microglobulin concentration in serum, kidney function

must be considered.

• Beta-2-microglobulin in CSF

Material: 0.5 ml CSF TAT: 7-10 days*

Method: nephelometry

Unit: mg/l

Beta-2-microglobulin in urine

General:

Beta-2-microglobulin forms the light chain of the histocompatibility antigens (HLA) and therefore appears on the cell surface of almost all nuclear cells. It can be found on the surface of lymphocytes in high concentrations. β -2-microglobulin is detected in almost all body fluids. Biological half-life: 20 min. up to 2 hours. The elimination is mainly renal by glomerular filtration followed by tubular reabsorbtion. Therefore an increase of the β -2-microglobulin concentration is observed in urine in tubular malfunction and thus the parameter is used as a dialysis parameter. A further clinical significance is the prognostic value among patients with malignant disorders of the lym-phatic system (e.g. multiple myeloma, CML) and immune system perturbations (AIDS).

Preanalytics: Please alkalize the urine by adding some drops of 2N NaOH. Beta-2-

microglobulin in urine samples with pH < 6 will be destroyed. Please indicate

volume

Material: 10 ml, 24 h urine

TAT: 7-10 days*

Method: nephelometry

Units: µg/l

Ref.- range: up to 300.0

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

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