



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

Page 1 of 2



Freiburg Medical Laboratory ME LLC is accredited according to DIN EN ISO 15189.

Updated 22/05/2025



Fax: 04 396 2228



Freiburg Medical Laboratory ME LLC, P.O.Box 3068, Dubai Tel: 04 396 2227

• 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 fol-lowed by tubular reabsorbtion. Therefore an increase of the β -2-microglobu-lin 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 perturba-tions (AIDS).

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

Page 2 of 2



Freiburg Medical Laboratory ME LLC is accredited according to DIN EN ISO 15189.

Updated 22/05/2025