

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

Tel: 04 396 2227

Fax: 04 396 2228



Aluminum

General:

Aluminum is not considered an essential trace element. It is found in relatively small concentrations in serum by daily food intake. Increased levels are found in increased intake or insufficient elimination. Aluminum has a different affinity to the different organs. Low concentrations can be toxic for the CNS (aluminum encephalopathy). Patients on dialysis need higher doses of aluminum hydroxide in order to prevent hyperphosphatemia.

The following tests are available:

Aluminum in serum

Indication: Monitoring of patients on dialysis with oral aluminum therapy (aluminum

hydroxide to neutralize phosphate), workers in aluminum processing industries,

patients with Alzheimer's disease.

Material: 3 ml Heparin-blood

Preanalytics: standard monovettes are not recommended as results are falsely increased,

often more than 100 μg (!), collection of whole blood in special tubes (trace

element free heparin-monovette) is highly recommended!

TAT: 10-14 days*

Method: ICPMS

Units: µg/l

Ref.- range: <8.0 (unaffected persons)

Note: In impaired kidney function, the aluminum load of the tissue does not correlate

directly with the serum levels.

· Aluminum in urine

Indication: Dialysis monitoring

Material: 10 ml urine TAT: 10-14 days*

Method: ICPMS

Units: µg/l

Ref.-range: up to 35 For complete fist of laboratory test offered at Freiburg Medical Laboratory, please visit http://www.fml-dubai.com/parameter-listings/

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