

Albumin

General:

Albumin (MW 66,000) is produced in the liver; the half-life is about 20 days. Chronic infections or severe hepatic cirrhosis might lead to impaired albumin synthesis. Investigation of albumin in serum and in CSF helps to differentiate cerebral disorders/infections. Albumin in urine is a marker protein for the diagnosis of early stages of glomerular and tubular damages.

The following tests are available:

• Albumin in serum

Indication: Classification of liver damage, in addition to albumin in CSF, diagnostic value for CSF-serum barrier dysfunction in certain cerebral disorders (albumin barrier serum/CSF normally approx. 1:180)

Material: 1 ml serum

Stability: 5 months at 2 to 8°C

TAT: same day, FML

Method: nephelometry

Units: g/dl

Ref.- range: 3.5 – 5.0

• Albumin in cerebrospinal fluid (CSF)

Indication: Suspicion of autonomous protein production, serum-CSF barrier dysfunction

Material: 1 ml CSF

TAT: 5-7 days*

Method: nephelometry

Units: mg/dl

Ref.- range: 0 - 30

Note: simultaneous detection of IgG in CSF as well as albumin and IgG in serum, *see also Reiber scheme*

- **Albumin in urine**

Indication: Marker protein for the diagnosis of early stages of glomerular and tubular damage

Material: 10 ml urine

Stability: 1 month at 2 to 8°C

Preanalytics: random urine

TAT: same day, FML

Method: turbidimetry

Units: mg/g creatinine

Ref.- range: <30.0

Note: Albuminuria can also appear in hypertonus, after physical training and in urinary infections.

- **Albumin in stool**

Material: 5 g stool, **frozen**

TAT: 7-10 days*

Method: RID

Units: µg/g stool

Ref.- range: <9.2

- **Albumin in aspirate**

Material: 1 ml aspirate

TAT: same day, FML

Method: photometry

Units: g/dl

Ref.- range: 0.6 - 3.7

- **Albumin in amniotic fluid**

Material: 1 ml amniotic fluid

TAT: 5-7 days*

Method: nephelometry

Units: see report

Ref.- range: see report



- **Albumin in dialysate**

Material: 1 ml aspirate

TAT: same day, FML

Method: photometry

Units: see report

Ref.- range: see report

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