

Insulin

General:

Insulin is a polypeptide hormone consisting out of two non-identical chains A and B, which are linked by two disulfide bridges. Insulin is synthesized in the beta cells of the pancreas out of pre-stage proinsulin. In proinsulin, the A and B chains are connected by a peptide chain, the so called C-peptide. Both insulin and C-peptide are stored in secretion vesicles of the islet cells and then are excreted into the blood.

Material: 1 ml serum

Preamalytics: Insulin is a very vulnerable parameter. If possible please centrifuge and send the frozen serum. Otherwise please send immediately!

TAT: same day, FML

Stability: 2 days at 2 to 8°C

Method: ECLIA

Units: IU/ml

Ref.- range: see report

Note: Hemolysis leads to false low values, insulin antibodies are detected among patients using cattle or swine insulin.

If the patient is taking multivitamins or dietary supplements containing high dose of Biotin (> 5 mg), the patient should stop taking it for at least 24 hours , before having the blood collection.

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