FibroTest ActiTest

General:

with **FibroTest** and **ActiTest** we offer a combined calculation from different biochemical parameters in order to assess the diagnosis and grading of liver disorders. The advantage of this - meanwhile internationally approved “non-invasive“ method - is its high compatibility with histopathology (see literature). The **FibroTest** is calculated using a combination of five biochemical markers. The FibroTest offers a non-invasive alternative to measuring fibrosis in patients with chronic hepatitis C or B, alcoholic liver disease and metabolic steatosis (overweight, diabetes, hyperlipidemia). The parameters are alpha2-macroglobulin, haptoglobin, apolipoprotein A1, total bilirubin and GGT, parameters are adjusted for patient’s age and gender. The **ActiTest** i*s* calculated using a combination of six biochemical markers. The ActiTest measures necro-inflammatory activity in patients with chronic hepatitis C or B. The ActiTest combines alpha2-macroglobulin, haptoglobin, apolipoprotein A1, total bilirubin, GGT, and ALT, parameters are adjusted for patient’s age and gender. Beside Fibro- and ActiTest there are other tests which are summarized in the table, see below. For example, the FibroMax Test calculates for all conditions.

How is the Calculation done ?

After blood collection of the patient and documentation of some information, such as weight and height or previous HCV infection etc. The laboratory analyzes different parameters which are calculated through an algorithm (special software, Centramed). The calculated score 0 – 1.00 can be attributed to a certain grade of fibrosis F0 – F4. This calculation is submitted together with an interpretation. Similar scores are used for all other tests, for example activity grade A0- A3 in the **ActiTest** calculation.

Table: Summary; Indication

	Fibrotest	Fibro-/Actitest	Fibromax	Steatotest	Ash Test	Nash Test
Indication	Fibrosis ? Cirrhosis ?	Fibrosis ? Cirrhosis ? Activity ?	Fatty Liver Fibrosis ? Cirrhosis ? Activity ?	Fatty Liver	Alcoholtoxic Fibrosis ? Cirrhosis ? Steatosis ?	Nonalcohol-toxic Fibrosis ? Cirrhosis ? Steatosis ?
Parameter	α2-macro-globulin, haptoglobin, apolipo-protein A1, T-bilirubin, γ-GT	α2-macro-globulin, haptoglobin, apolipo-protein A1, T-bilirubin, γ-GT, ALT	α2-macro-globulin, haptoglobin, apolipo-protein A1, T-bilirubin, γ-GT, ALT, AST, cholesterol, triglycerides, fasting glucose	α2-macro-globulin, haptoglobin, apolipo-protein A1, T bilirubin, γ-GT, ALT fasting glucose, triglycerides, cholesterol, weight and height	α2-macro-globulin, haptoglobin, apolipo-protein A1, T bilirubin, γ-GT, ALT, AST	α2-macro-globulin, haptoglobin, apolipo-protein A1, T bilirubin, γ-GT, ALT, AST, fasting glucose, triglycerides, cholesterol, weight and height

Order:	Fibrotest-Actitest / Steatotest / Ashtest / Nashtest or Fibromax
Material:	For all listed tests 3 ml serum (or 5 ml full blood in plain tube **without** additives) for each calculation.
TAT:	7 days, FML
Comments:	If you perform single tests in your laboratory you should **submit the values with your units used** as we have to convert them into mmol/l and g/l. Please enter all the data of the patient as algorithms are adjusted to age and gender. In some cases weight and height are required as well.
Limitations:	**Hemolysis** due to blood collection; **falsely decreased blood sugar values due to long storage of full blood samples**. If there is the possibility to separate serum immediately (centrifuge) it would be of advantage.

Technical Recommendation:

It is crucial to check reagents/analyzers/methods by Centramed, the sole agent of FibroTest in the UAE in order not to falsify the calculation.

Ordering of Blood Collection Systems:

Request a number of serum test tubes from FREIBURG MEDICAL LABORATORY along with request forms.

Transport:	Call the laboratory for transport and sample collection.
Literature:	Halfon P, Bourliere M, Deydier R et al. "Independent prospective multicenter validation of biochemical markers (fibrotest-actitest) for the prediction of liver fibrosis and activity in patients with chronic hepatitis C: the fibropaca study." Department of Virology, Alphabio Laboratory, 23 Street of Friedland, 13006 Marseille, France., Am J Gastroenterol. 2006 Mar;101(3):547-55

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