The ADVIA Centaur® systems’ Enhanced Liver Fibrosis (ELF™) test is an in vitro diagnostic multivariate index assay intended to provide a single ELF score by combining in an algorithm the quantitative measurements of hyaluronic acid (HA), amino-terminal propeptide of type III procollagen (PIIINP), and tissue inhibitor of metalloproteinase 1 (TIMP-1) in human serum using the ADVIA Centaur XP, ADVIA Centaur XPT, and ADVIA Centaur CP systems.

The ELF test is indicated, in conjunction with other laboratory findings and clinical assessments, as an aid in the diagnosis and assessment of the severity of liver fibrosis in patients with signs and symptoms of chronic liver disease.

- First direct marker panel of liver fibrosis
- Standardized component assays (HA, PIIINP, TIMP1)
- Uses a routine blood serum sample
- Clinically validated for liver fibrosis assessment in mixed, HCV, and NAFLD patient groups

The ELF test was clinically validated on the Immuno 1 system in an international multi-centre study with a mix of patient groups and was found to be accurate to differentiate mild, moderate and severe fibrosis, and subsequently has been shown to be at least as good as biopsy at predicting liver disease-related outcomes.

Calculating the ELF Score
To calculate the ELF score for the ADVIA Centaur systems, first obtain results for the ADVIA Centaur HA, PIIINP, and TIMP-1 assays and then use the following equation/algorithm to calculate the ELF score:

**ADVIA Centaur XP/XPT:**
ELF score = 2.278 + 0.851 ln(C_HA) + 0.751 ln(C_PIIINP) + 0.394 ln(C_TIMP1)

**ADVIA Centaur CP:**
ELF score = 2.494 + 0.846 ln(C_HA) + 0.735 ln(C_PIIINP) + 0.391 ln(C_TIMP1)

Concentrations (C) of each assay are in ng/mL

**Interpretation of Results**
Interpretation of the ELF score is as follows:

- < 7.7 None to mild
- ≥ 7.7 to < 9.8 Moderate
- ≥ 9.8 Severe
## Siemens ELF Test

### Assay Summary

<table>
<thead>
<tr>
<th>Test</th>
<th>Sample Type</th>
<th>Sample Volume</th>
<th>Assay Range</th>
<th>Onboard Stability</th>
<th>Calibration Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>TIMP-1</td>
<td>Serum</td>
<td>25 µL</td>
<td>3.5 - 1,300 ng/mL</td>
<td>60 days</td>
<td>28 days</td>
</tr>
<tr>
<td>PIIINP</td>
<td>Serum</td>
<td>20 µL</td>
<td>0.5 - 150 ng/mL</td>
<td>60 days</td>
<td>28 days</td>
</tr>
<tr>
<td>HA</td>
<td>Serum</td>
<td>20 µL</td>
<td>1.6 - 1,000 ng/mL</td>
<td>60 days</td>
<td>14 days</td>
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</tbody>
</table>

### Ordering Information

<table>
<thead>
<tr>
<th>Catalog No.</th>
<th>Contents</th>
<th>No. of Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td>10492065</td>
<td>TIMP-1 ReadyPack®</td>
<td>50</td>
</tr>
<tr>
<td>10493157</td>
<td>HA ReadyPack</td>
<td>50</td>
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<tr>
<td>10492440</td>
<td>PIIINP ReadyPack</td>
<td>50</td>
</tr>
<tr>
<td>10492344</td>
<td>ADVIA Centaur ELF Calibrator</td>
<td>2 x 2.0 mL low calibrator 2 x 2.0 mL high calibrator</td>
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<tr>
<td>10492342</td>
<td>ADVIA Centaur ELF QC</td>
<td>3 x 2.0 mL Control 1 3 x 2.0 mL Control 2 3 x 2.0 mL Control 3</td>
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<tr>
<td>10492364</td>
<td>ADVIA Centaur Multi-Diluent 13</td>
<td>2 x 5.0 mL ReadyPack ancillary reagent packs</td>
</tr>
</tbody>
</table>

The ELF tests are CE-marked. Not available for sale in the U.S.

### References:


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Product availability may vary from country to country and is subject to varying regulatory requirements. Please contact your local representative for availability.

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For additional information on the Siemens ELF test, go to siemens.com/elf.