

# Somatomedin C

## General:

IGF-1, synonym Somatomedin C, is one of the growth hormones and is found in numerous tissues particularly in the hypothalamus. It is synthesized pre-dominantly in the liver and it influences body growth. The secretion is activated by the hypothalamus hormone GHRH and limited by somatostatin. In contrast to human growth hormone which is secreted at night, somatomedin C is not subject to day/night rhythm. In addition, SMC has an anti-insulinic effect. Another specific test is the Insulin-like Growth Factor Binding Protein 3 (see below IGFBP3).

Indication: Increased growth, acromegaly (monitoring, activity assessment and therapy control), delayed growth due to growth hormone defect, deformities, cerebral tumors, cerebral traumata, hypophyseal hypofunction.

Material: 1 ml serum, **frozen**

TAT: 2-3 days , FML

Method: ECLIA

Units: ng/ml

Ref.- range: see report

Note: Anticoagulants (heparin etc.) can provoke false results

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