

Insulin-Like Growth Factor Binding Protein-3

Effective Date: May 1, 2018

Commencing May 1, 2018, Beaumont Laboratory will perform testing for Insulin-Like Growth Factor Binding Protein-3 (IGFBP-3) on the Siemens Immulite immunoassay platform.

Background Information:

Insulin-like growth factors 1 and 2 (IGF-1, IGF-2) are small polypeptides involved in the regulation of cell growth. IGF-1 and IGF-2 are bound to insulin-like growth factor binding proteins, six of which have been described. IGFBP-3 is the predominant of these, binding ~95% of circulating IGF-1 and IGF-2.

IGF-1 serves as the major mediator of the anabolic and growth-promoting effects of growth hormone. Secretion patterns of IGF-1 and IGFBP-3 mirror each other, and are primarily growth hormone dependent. In contrast to growth hormone production, which is pulsatile and demonstrates significant diurnal variation, IGF-1 and IGFBP-3 levels exhibit only minor fluctuations. Given that, serum measurements of IGF-1 and IGFBP-3 represent a more stable assessment of growth hormone production.

Primary Clinical Utility:

To aid in the evaluation of growth disorders and growth hormone deficiency.

Ordering Information:

IGFBP-3 Epic Test Code: LAB7118

Specimen Collection Requirement: One gold-top Serum Separator Tube (SST)

- As an alternative to the Growth Assessment Group V send-out (LAB6043), order the following stand-alone tests performed in-house:
 - a. IGF-1 (LAB5819)
 - b. IGFBP-3 (LAB7118)

If you have questions, please contact Client Services (1-800-551-0488, option 5).

For additional information, access the Laboratory Test Directory at:

<http://beaumontlaboratory.com/test-lab-directory>

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