

ANNOUNCEMENT

Date: March 25, 2011

Dear Valued Clients:

Foundation Laboratory is pleased to announce that effective March 25, 2011 C-Peptide assay will be performed in-house by immunochemilluminiscent method.

C-Peptide, first described in 1967 in conjunction with the discovery of insulin biosynthesis, is an important link between A and B chains of insulin, facilitating the assembly, folding, and processing of insulin in the endoplasmic reticulum. Its production in the beta cells of pancreas is equimolar with insulin and released in portal circulation. C-Peptide assay has great value in understanding of pathophysiology of type 1 and type 2 diabetes. In vivo studies in animal models of type 1 diabetes have established that C-Peptide administration results in significant improvements in nerve and kidney function improved diabetes-induced peripheral neuropathy, improved nerve conduction velocity and increased Na⁺K⁺ATPase activity.

C-Peptide is a useful diagnostic tool in distinguishing type 1 and type 2 diabetes, determining the possibility of gastrinomas associated with Multiple Endocrine Neoplasm Syndrome and Polycystic Ovarian Syndrome, determining the degree of insulin resistance, and Insulinoma.

Specimen Requirements:

- 1 mL serum, Fasting specimen preferred.
- Blood should be collected in SST (Serum Separator Tube).
- Separated Serum specimen needs to be shipped frozen.

Normal Range:

- 0.81 – 3.85 ng/mL

Turn Around Time:

- 72 Hours

For supplies and other needs please contact your Foundation Laboratory representative.

Sincerely,

Reza M. Massoumi, Ph.D.
Laboratory Manager