## **SPECIFICATION SHEET**

Product Name: C-Peptide-Ag Catalog #: L4I00201

**Description**: Human C-Peptide Antigen (polypeptide) >95% Pure

Arg-Arg-Glu-Ala-Glu-Asp-Leu-Gln-Val-Gly-Gln-Val-Glu-Leu-Gly-Gly-Pro-Gly-Ala-Gly-Ser-Leu-Gln-Pro-Leu-Ala

-Leu-Glu-Gly-Ser-Leu-Gln-Lys-Arg

**CAS Number:** 11097-48-6

**Linear Formula:**  $C_{153}H_{259}N_{49}O_{52}$ 

**Molecular Weight:** 3617.07

**Format:** liquid, purified by HPLC

**Purification**: Purified, >95% (HPLC)

Concentration& Lot.: lmg/ml(Lot.: C150501)

**Buffer**: 10Mm PBS, pH 7.5

**Preservative**: None

**Description** In proinsulin the insulin A and B chains are linked by C peptide. During

the biosynthesis of insulin, the C peptide promotes proper protein folding and disulfide bond placement after which it is cleaved. The cleaved peptide may inhibit insulin aggregation and is stored and released from the  $\beta$  cells with insulin in a one-to-one molar ratio. C peptide is a marker for  $\beta$  cell function *in vivo*; levels are enhanced in insulin resistance or insuloma and reduced in insulin insufficiency (type I diabetes). C peptide may alleviate the vascular damage and

neuropathy associated with insulin depletion.

**Storage&Shelf life**: Store at -20°C for 3 years. Avoid multiple freeze/thaw cycles.

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

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