

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-L eu-Gly-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.:	1mg/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 β cells with insulin in a one-to-one molar ratio. C peptide is a marker for β cell function <i>in vivo</i> ; 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.