

C-Peptide (fasting) (CPEPTF)

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TEST OVERVIEW

Test Name	C-Peptide (fasting)
Test Code	CPEPTF
Short Description	C-Peptide (fasting)

OVERVIEW

Test Name	C-Peptide (fasting)
Test Code	CPEPTF
Category	Immunoassay
TAT	Main Lab: 12 Hour(s) Family Site: <12hrs
Specimen(s)	1 x Venous blood - 5 mL Tube - Gold - SST-Serum Separator Tube

SPECIMEN(S)

SST-Serum Separator Tube

Specimen Type	SST-Serum Separator Tube
Specimen Format	Tube
Specimen Colour	Gold
Specimen Volume	5 mL
Sampling Order	2
Origin	Venous blood
Collection time after baseline	-
Transport Temperature	-20°C
Accepted Other Specimens	Serum EDTA Plasma Lithium Heparin Plasma

TAT

Main Lab: 12 Hour(s)
Family Site: <12hrs

Test Stability

Room Temp: 24 Hour(s)
2–8°C: 2 Day(s)

CLINICAL INFORMATION

C-Peptide (Fasting)

Methodology	Chemiluminescent Microparticle Immunoassay (CMIA)
Specimen Type	SST-Serum Separator Tube
Delay before pre-treatment	6
Transport Temperature	-20°C
Transport Stability at room temp	24 Hours
Transport Stability at 2–8°C	2 Day
Haemolysis interference	No

Clinical Interest

The **C-peptide assay** is clinically useful for assessing pancreatic beta-cell function and insulin secretion.

It can be used to differentiate between types of diabetes. Type 1 diabetes has low or undetectable levels of C-peptide, indicating reduced or absent insulin production. In type 2, normal or elevated C-peptide levels indicate insulin resistance and retained beta-cell function.

In diagnosing hypoglycaemia, it is useful to differentiate between insulinoma (insulin-producing tumour) with high C-peptide levels and sham hypoglycaemia due to exogenous insulin (low C-peptide levels).

In patients being treated for diabetes, C-peptide levels indicate remaining endogenous insulin production.

PATIENT INFORMATION

Clinical Information Required	-
Patient Collection Notes	-

COMMENTS & NOTES

LOINC Code	180-0, 42180-0
Outwork	No