

MLT™ C-PEPTIDE ASSAY KIT

Catalogue No.

MLT™ C-Peptide Assay Kit IV2-004

Intended Use

Invitron’s MLT C-peptide Assay is an immunometric assay for the quantitative measurement of C-peptide in human plasma samples. Measurements of C-peptide are useful in the investigation and management of patients with diabetes.

Test Principle

The Invitron C-peptide Assay is a two-site immunoassay, employing a C-peptide-specific solid phase antibody immobilised on microtitre wells, and a soluble antibody labelled with a chemiluminescent acridinium ester. The plasma sample is incubated simultaneously with the labelled antibody solution in the microtitre well, followed by a wash step to remove unbound labelled antibody before measurement. The bound luminescence is quantified by a microtitre plate luminometer capable of in situ reagent addition. The luminescent reaction is a rapid flash type (>95% complete in 1 second) which permits the entire plate to be read in approximately 5 minutes.

Specifications

Sample Types	Plasma
Assay Time	Approx. 2 hours 15 minutes
Range	0 – 5000 pmol/l
Sample Size	25 µl
Sensitivity	5.0 pmol/l

Specificity

C-peptide	100%
Insulin	0.0%
Intact proinsulin	2.0%

Highlights

- ✓ Highly specific for Intact proinsulin
- ✓ Highly precise with low CVs
- ✓ Wide dynamic working range
- ✓ Calibrated against WHO International Standard (IRP 84/510)

Summary of Protocol

- Add 100 µl Labelled Antibody to wells
- ↓
- Add 25 µl Standard / Sample to respective wells
- ↓
- Incubate for 2 hours at 37°C
- ↓
- Wash wells x3
- ↓
- Measure light output in a plate luminometer

See kit insert or email us for complete protocol.