



C-PEPTIDE DETERMINATION

1 PURPOSE

The purpose of this Standard Operating Procedure (SOP) is to outline procedures for preparing and shipping serum from nPOD donors for C-peptide measurement.

2 SCOPE

This SOP will be applied to all serum used for C-peptide analyses conducted for the nPOD project.

3 RESPONSIBILITIES

- 3.1 Managers and supervisors are responsible for making sure that technicians are properly trained and equipment and facility are maintained in good working order.
- 3.2 Laboratory personnel are responsible for reading and understanding this SOP and related documents and to perform these tasks in accordance with the SOPs. They are responsible for following clinical laboratory and tissue banking best practices.
- 3.3 The nPOD laboratory manager is responsible for preparing the shipment of serum and for entering the resultant data in the nPOD database once received.

4 EQUIPMENT and MATERIALS

The equipment and materials required are determined as per laboratory specifications, whichever is suitable for the specific task or procedure.

5 SAFETY

- 5.1 Use universal safety precautions when handling human samples and personal protective equipment (e.g., face mask with shield, gloves, lab coat or apron).

6 PROCEDURE

- 6.1 To perform analysis of C-Peptide, samples should optimally be processed within two hours from blood draw and kept frozen at -20°C, without undergoing freezing-thawing cycles.
- 6.2 A volume of 300 ul is desirable, but 200 ul is the minimum required. If samples are stored at a higher volume, the University of Washington laboratory will immediately re-freeze the samples after completing the analysis and ship them back to the Organ Processing and Pathology Core (OPPC).
- 6.3 Ship samples on dry ice by overnight delivery.
- 6.4 The nPOD laboratory manager or designee will send an electronic manifest of the samples in the same order the samples are organized in boxes.
- 6.5 Include the following additional information:

Study name: JDRF nPOD
PI Name: Mark Atkinson, PhD

JDRF nPOD Standard Operating Procedure		
SOP Number and Version: 85.0	Supersedes: nPOD 5	C-PEPTIDE DETERMINATION
Original Effective Date: 08/01/08		
Version Effective Date: 08/19/11		Page 2 of 2

Format of reports: Excel file

Please send results to: M. Atkinson (Atkinson@ufl.edu) and nPOD (npod@pathology.ufl.edu)

6.6 The address for shipment is:

Attn: Santica M. Marcovina, PhD, ScD
 Northwest Lipid Metabolism and Diabetes Research Laboratories
 University of Washington
 401 Queen Anne Avenue North
 Seattle, WA 98109
 Phone: (206) 685-3331
 FAX: (206) 685-3279

6.7 On the day of shipment, the nPOD lab manager or designee will send the shipment tracking information to Jessica J. Chmielewski, University of Washington's program coordinator, at jjc8@u.washington.edu.

7 REFERENCES

7.1 SOP 57 Case Processing

8 REVISION HISTORY

Version	Date	Revision

Prepared by	Clive Wasserfall		
Approved by	Mark Atkinson		
	Name	Signature	Date