

VLCAD Leucocyte Enzymology Specimen Collection and Shipping

ADDRESS FOR SHIPPING OF VLCAD ENZYMOLOGY SPECIMENS:

NSO SPECIMEN HUB
415 Smyth Road Ottawa, ON K1H 8M8

VLCAD ENZYMOLOGY SAMPLE REQUIREMENTS:

- ≥ 2 mL of whole blood, collected in a purple topped (EDTA) tube is required.
- Allow the specimen to gently mix for a minimum of 10 minutes prior to packaging or storing at approximately 4°C. Failure to store the sample at 4°C will result in a decrease in enzyme activity. **Blood should not be frozen.**
- A **Newborn Screening Ontario Biochemistry Requisition** must accompany each sample.
<https://www.newbornscreening.on.ca/en/diagnostic-testing/biochemical-diagnostics>

VLCAD ENZYMOLOGY SAMPLE SHIPPING:

- Whole blood specimens for VLCAD enzymology should be packaged separately from any other samples being sent to NSO or CHEO.
- Care must be taken to preserve the enzyme activity of the specimen; the blood must remain cold (approximately 4°C) but **not** frozen.
- If the specimen will not be packaged and shipped immediately it should be stored in a fridge at (approximately 4°C) until shipping.
- Leukocyte fractionation of whole blood samples for VLCAD enzymology is not performed on weekends or statutory holidays. Whole blood specimens for VLCAD enzymology should be shipped to the address above from Monday to Thursday with next day delivery to be received Monday-Friday, excluding Holidays.
- Please inform the NSO Specimen Hub via email (NSOtechnicians@cheo.on.ca) on the day of sample shipping.

VLCAD ENZYMOLOGY SAMPLE PACKAGING:

- To preserve enzyme activity of the specimen the temperature during shipment must remain at (approximately 4°C), however freezing of the sample must be avoided.
- Blood specimens for VLCAD enzymology must be shipped in a thick-walled Styrofoam box with a tight-fitting lid. Any other shipping containers may fail to maintain appropriate temperature conditions.
- Packaging within the Styrofoam box must be tight to avoid contents shifting during shipping.
- Packaging suggestions are available on the following page of this document.

PACKAGING SUGGESTIONS:

Option 1:



Option 2:

