



Quote for LN2 Storage
Prepared for: [REDACTED]

WiCellSAFE

LN2 storage options at WiCell

WiCell now offers long-term liquid nitrogen (LN2) storage options at its Madison facilities. Storage is available by the box (standard 25 vial or 100 vial cryo boxes). WiCell's LN2 storage is intended for research grade and GLP materials only. All materials are maintained in vapor phase. Boxes are exclusive to the client, with multiple clients per tank. Multiple species may be contained in a single tank.

LN2 tanks are continually monitored with a Rees system, a network-based, licensed, software program that provides real time monitoring data that is easily accessible from any location while still maintaining the security of the WiCell firewall. Tracking data can be queried and reported. Comprehensive preventive maintenance on the monitoring system and LN2 tanks is performed regularly, and includes evaluating alarm occurrence to identify trends, evaluating the temperature alarm ranges and alarm interval times for each piece of equipment, testing the alarm notifications, and verifying backup procedures. Back-up of monitoring data occurs nightly.

Back-up power systems in place immediately activate to maintain power to LN2 tanks as well as monitoring functions in the event of complete external power failure, and banking personnel are notified of activation through the automatic email, text, and/or phone response of the Rees security system. Response procedures are in place, and technical staff remain on call and available to respond to emergency alerts 24/7/365.

Upon receipt, each vial of client material is entered into WiCell's Laboratory Information Management System (LIMS), tracking each vial to the specific box location, rack and tank. Storage rooms are climate controlled with appropriate circulation and ventilation to maintain temperatures with all equipment functioning properly.

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Following execution of related legal agreement, perform the following work as described:

Item	Cost
<ul style="list-style-type: none">• Send labeled cryobox and loading instruction to [REDACTED] to be used for transfer of material to WiCell for storage.• Schedule shipment of cell lines from current location to WiCell, including arranging pick-up and delivery of shipper, inclusion of monitoring and tracking devices, and insurance. Shipping costs to be covered by [REDACTED].• Upon receipt, place into inventory in monitored LN2 storage units, maintain materials in storage and monitor routinely. Information on LN2 storage services included in attachment "WiCell LN2 Storage"• Maintain material in LN2 storage until requested by [REDACTED].	<p>Placement fee: \$100 placement set-up \$5 per vial not inclusive of shipping</p> <p>Annual storage fee: Small box (~5x5)/year: \$200 Large Box (~10x10)/year: \$600</p> <p>Retrieval fee: \$50 retrieval set-up \$5 per vial not inclusive of shipping</p>

Quote Prepared by: Tenneille Ludwig

Date: 11/10/2019

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