# **Frequently Asked Questions**

Last updated: September 28, 2017

# How do I request Biorepository number labels and/or 2ml standard cryovials (supplied by GGI)?

Contact any of the following people for labels and/or cryovials (see list below). Include the number of labels/tubes needed, the department (VZ-Fishes, Botany, Entomology, etc.) you are collecting for and the name of the project. Biorepository numbers can only be assigned by designated biorepository staff members. Designated staff members denoted by asterisk (\*).

- 1. Chris Huddleston\*, Biorepository manager. Email: HuddlestonC@si.edu
- 2. Ashton Smith, GGI Biorepository technician. Email: SmithA@si.edu
- 3. Daniel DiMichele\*, Biorepository technician. Email: DiMicheleDL@si.edu
- 4. Amanda Devine\*, GGI Data technician. Email: DevineA@si.edu

### Do I have Biorepository-approved containers and where do I get them?

Refer to the list of pre-approved cryovials, plates, coin envelopes, etc. included in the GGI Biorepository Training Module. Containers can be obtained through the Biorepository or purchased on your own. Please consult with Biorepository staff before ordering your own supplies to ensure they are Biorepository-approved.

## How far in advance do I need to request supplies, equipment and/or services from the Biorepository?

Item or Service	One Month Prior to Departure	At Least Two Weeks Prior to Departure
Generate Biorepository Labels		Х
Request Preservative Solutions (95% ethanol, EDTA/DMSO, Lysis buffer)	х	
Request Dewar/Dry-Shipper	Х	
Request Shipping Service (FedEx or Cryoport)		х

### What is the correct orientation for a Biorepository label on a cryovial?





#### Do 2-D Barcode cryovials inside 2-D Barcode Plates get labeled with Biorepository numbers?

No. 2-D Barcode cryovials are not physically labeled with Biorepository numbers (though they do receive a virtual Biorepository number). Collectors using these cryovials will not receive physical Biorepository number labels; instead Biorepository numbers will be associated with the scanned 2D Barcode number at the bottom of each 2-D Barcode cryovial.

### How many standard cryovials (2mL) fit inside a 10 Liter LN2 Dewar/Dry-Shipper?

Approximately 400-450 2mL tubes can fit inside a 10 Liter Dry-shipper.

### What are the dimensions and weight of a LN2 Dewar/Dry-Shipper (with shipping container)?

Small tank (10 L)

18" X 18" X 25" 26 lb. (uncharged), 31 lb. (charged with LN) 46 cm X 46 cm X 64 cm 12 kg (uncharged), 14 kg (charged with LN)

Large tank (10 L wide mouth)- tank typically only used for local collecting trips 22" X 22" X 27" 50 lb. (uncharged), 68 lb. (charged with LN) 56 cm X 56 cm X 69 cm 23 kg (uncharged), 31 kg (charged with LN)

Note: Weights listed above do not include samples.

## How long does a LN2 Dewar/Dry-Shipper stay cold after it's been charged with liquid nitrogen?

As a Dry-Shipper (no liquid inside tank):

Small tank (10 L)

Tank stored upright = 17 days

Tank stored on its side = < 7 days

Tank stored upside down = < 2 days

<u>Large tank</u> (10 L wide mouth)- tank typically only used for local collecting trips
Tank stored upright = 10 days
Tank stored on its side = 4 days
Tank stored upside down = 1 day

As a Dewar (liquid inside tank):

Small tank (10 L)

Tank stored upright = currently being tested

<u>Large tank</u> (10 L wide mouth)- tank typically only used for local collecting trips Tank stored upright = Unknown. Not tested.

### How long does it take to charge a LN2 Dewar/Dry-Shipper tank?

2 hours. It's best to charge 2 hours, then top off with more liquid nitrogen.

# After collecting, where and to whom do I ship my sample-filled LN2 Dewar/Dry-shipper?

All GGI-related LN tank shipments can be shipped directly to the NMNH Biorepository to Ashton Smith at the following address:

Ashton Smith (301-238-1885) Smithsonian Institution NMNH Biorepository Museum Support Center 4210 Silver Hill Rd. Suitland, MD 2074

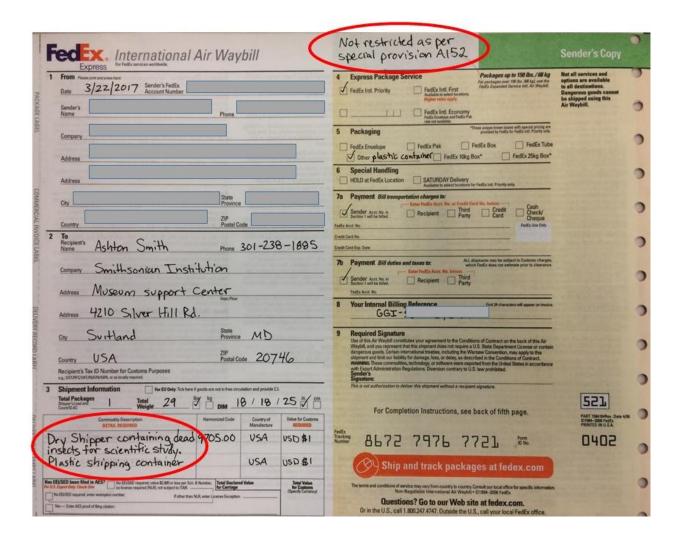
# What is the <u>very important</u> phrase to include on the shipping waybill when shipping a Liquid nitrogen tank?

"Not restricted as per special provision A152." This phrase notifies/reminds all shipping personnel that the liquid nitrogen tank is not considered a hazardous good under this special provision. See FedEx waybill example below (press hard when writing phrase on the waybill):



# What is the <u>very important</u> phrase to include on the shipping waybill when shipping biological specimens inside a liquid nitrogen tank?

Include the phrase "Dry shipper containing <u>dead</u> [insects or *whatever biological specimen*] for scientific study" when filling out the commodity description of section 3 of the international waybill. The word <u>DEAD</u> is very important to include so FedEx and Customs is aware the biological specimens inside the tank are not alive. See example below:



### How much tissue is needed for a DNA extraction on the L.A.B. Autogen?

A piece of tissue 2mm<sup>3</sup> in size. In other words, about half the size of a dull, No.2 lead pencil tip. It is recommended to take more than this (if possible) for tissues destined for the Biorepository.

# Do I need to wrap my cryovials in aluminum foil before dropping the samples into the LN tank?

Yes! Wrapping cryovials in aluminum foil prevents the labels and/or lids from popping off in the liquid nitrogen. See example below. Also, any writing on the outside of the vials must be in pencil (not ink). Ink can come off with ethanol and other solvents.





