

# Nicotinic Acid for the Treatment of Alzheimer's Disease: A Phase 1b/2a Study

BIOSPECIMEN COLLECTION AND SHIPMENT TRAINING



National Centralized Repository for  
Alzheimer's Disease and Related Dementias

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# Nicotinic Acid Biospecimen Collection Schedule

Collection Tube	Visit	Specimen Type	Aliquot Volume	Total Number of Aliquots	Cap Color
2 x EDTA (Purple-Top) Blood Collection Tubes (10 ml)	Day 0, Day 60	Plasma	1.5 ml plasma aliquots	Up to 7	Purple
		Residual Plasma	<1.5 plasma aliquot	1	Blue
		Buffy Coat	~1.0 ml buffy coat aliquots	2	Clear
1 x CSF (Blue-Top) Conical Tube (20 ml)	Day 0, Day 60	Local Lab CSF	1.0-2.0 ml	1	Yellow
		Processed CSF	1.5 ml	11	Clear
		Residual CSF	<1.5 ml	1	Blue

# Kit Request Module

[www.kits.iu.edu/NicotinicAcid](http://www.kits.iu.edu/NicotinicAcid)

- ❖ Ordering Blood Kit Supplies

- ❖ Ex: tubes, pipettes, labels, cryobox

- ❖ Ordering Frozen Shipment Supplies

- ❖ Ex: styrofoam container, cardboard shipper, shipping stickers

- ❖ Allow for **three weeks** from time of order to receipt of supplies

- ❖ Initial order should be received prior to site start date

# Kit Request Module Instruction


**Specimen Collection Kit**

Number of blood collection kits needed:

Each Nicotinic Acid blood collection kit contains:

Kit Contents  
02 EDTA tube 10 ml [CT001]  
06 2ml Cryovial - Purple [CV027]  
01 2ml Cryovial - Blue [CV034]  
02 2ml Cryovial - Clear [CV014]  
01 15ml Centrifuge tube [CV004]  
02 Disposable Pipet (3ml) [CV015]  
01 Cardboard Cryobox, 25 slot [CV005]  
01 Resealable Bag [ST002]

Labels  
10 Preprinted Cryovial Labels [LB003]  
05 Kit Number Labels [LB003]  
03 Participant ID Labels [LB003]  
01 2x4 Label [LB006]



Number of CSF collection kits needed:

Each Nicotinic Acid CSF collection kit contains:

Kit Contents  
01 LP Tray 22 Gauge Sproutte w Introducer [LP006]  
11 2ml Cryovial - Clear [CV014]  
01 2ml Cryovial - Yellow [CV037]  
01 2ml Cryovial - Blue [CV034]  
02 50ml Conical Tube, Individually Wrapped [CV056]  
01 Disposable Pipet (3ml) [CV015]  
01 Cardboard Cryobox, 25 slot [CV005]  
01 Resealable Bag [ST002]

Labels  
13 Preprinted Cryovial Labels [LB003]  
01 Participant ID Label [LB003]  
01 Kit Number Label [LB003]  
01 2x4 Label [LB006]

➤ Verify site shipping address and contact information

➤ Enter amount of each kit need

➤ Consider EDTA expiration roughly 3 months when ordering

➤ Allow **3 weeks** when placing order for kits to be ready for pick up

# Kit Pick Up

❖ You will receive a notification via e-mail when your kit contents are ready for pick up.

❖ Address: 351 W 10<sup>th</sup> Street Room #316

1. Enter through the main doors closest to the canal.
2. Turn left at the first hallway and there will be signs for elevators.
3. Take the elevator to the 3<sup>rd</sup> floor.
4. Pick up ordered kit supplies outside of room #316.

❖ Hours of Operation are Monday through Friday 8:00 am – 5:00 pm

❖ Please be aware of our holiday closures found here <https://ncrad.org/contact/holiday-closures>

# Specimen Labeling Instruction

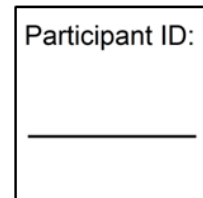
# Specimen Labels

## Kit Number Label



- Ties all biospecimens and kit content together for each participant
- Placed on each cryobox, Appendix B, and Appendix C.

## Participant ID Label



- Handwritten by sites according to unique study ID
- Placed on blood collection EDTA tubes

## Collection Tube Label



- Specific to type of specimen. Contains unique specimen ID, barcodes, and kit number.
- Place on each collection tube

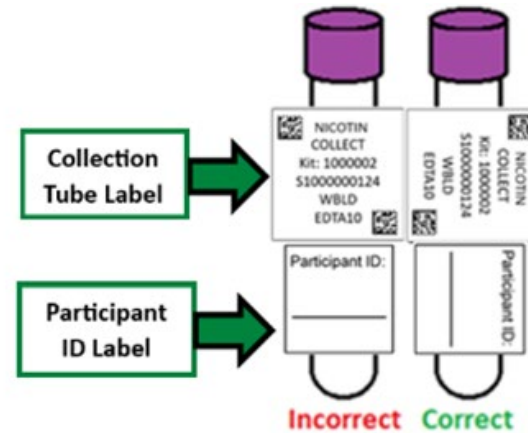
## Aliquot Cryovial Label



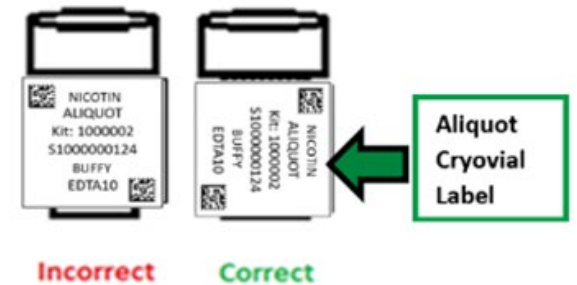
- Specific to type of specimen. Contains unique specimen ID, barcodes, and kit number.
- Place on each collection tube

# Specimen Labeling Instruction: Label Placement Details

- ❖ Write participant ID with fine-point marker prior to label placement
- ❖ Place **all** labels on specimen specific collection tubes and cryovial 2 ml **before** blood collection, processing, or freezing
- ❖ Label collection tubes and cryovials for **one participant at a time** to avoid mix ups.
- ❖ Wrap labels **horizontally** and adhere **completely** to all tubes



Collection Tube Label Diagram



Aliquot Cryovial Label Diagram

# Specimen Collection and Processing

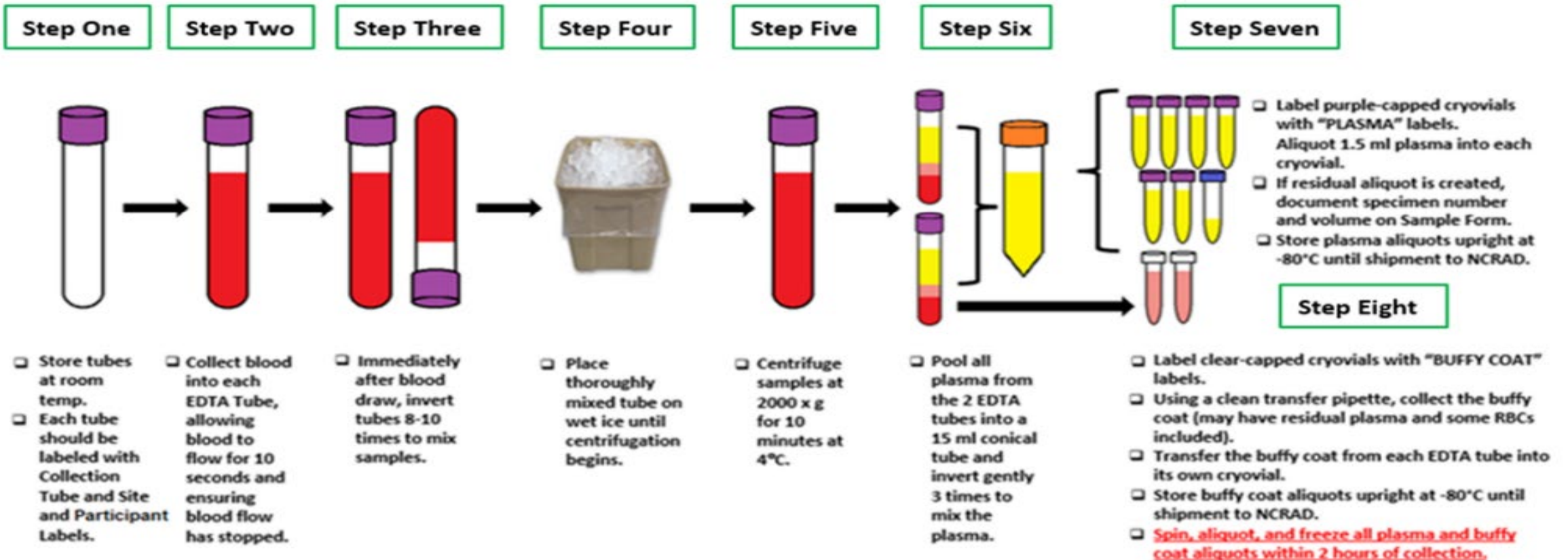
# Nicotinic Acid Biospecimen Samples

NCRAD will provide training and materials for the following biospecimens:

- ❖ Plasma
- ❖ Buffy Coat
- ❖ CSF

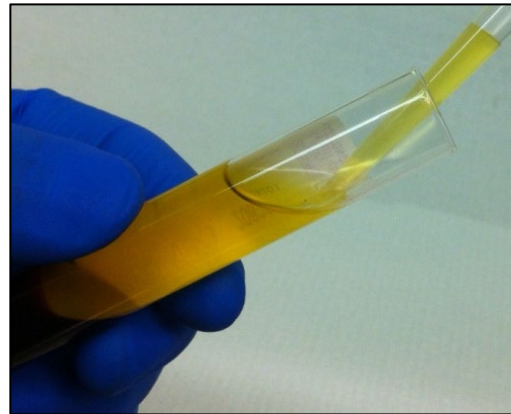
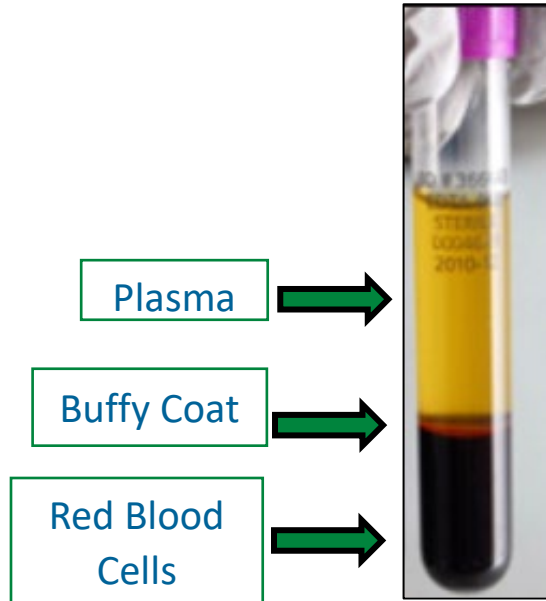
# PROCESSING PLASMA AND BUFFY COAT

## Plasma and Buffy Coat Preparation EDTA Purple-Top Tube (10 ml)

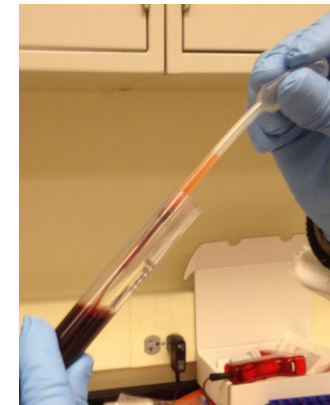


**Important Note:** Ensure all tubes are NOT expired prior to collection and processing of samples.

# Specimen Collection and Processing: Plasma and Buffy Coat Collection (Screening)



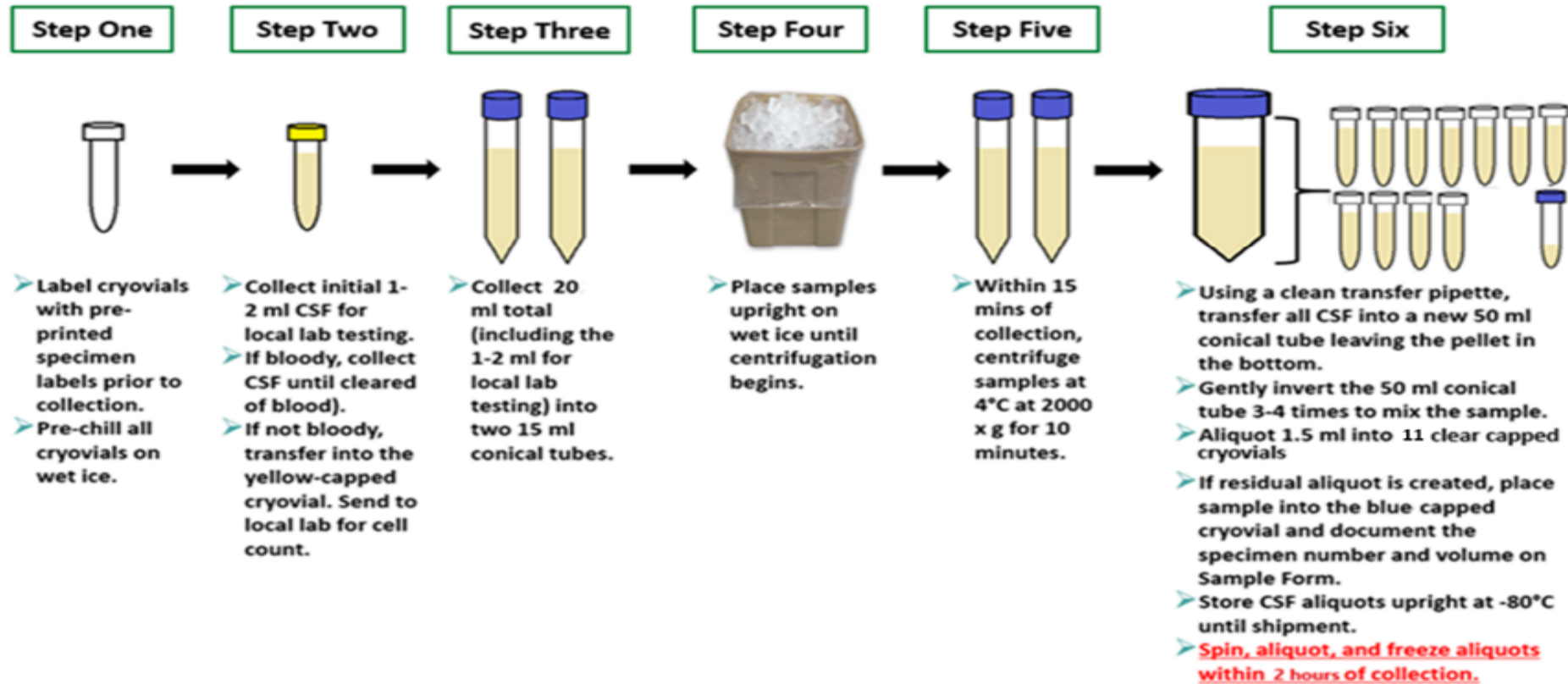
50 ml Conical with  
30 ml pooled plasma  
after inversion



Retrieve buffy coat  
from each EDTA  
(expected to have reddish  
color from RBCs)

# PROCESSING CSF

## CSF Preparation (20 ml total)



**Important Note:** Ensure all tubes are NOT expired prior to collection and processing of samples.

# Important Note

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If there are any unused cryovials, please do not send the empty cryovials to NCRAD.

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Our lab charges the study for the destruction of these empty tubes.

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These unused cryovials (ensure labels are removed) can be saved as part of a supplemental supply at your site or the cryovials can be disposed of per your site's requirements.

# Shipment Packaging, Labeling, & Forms

# Frozen Shipment Packaging



All samples shipped frozen to NCRAD **Monday-Wednesday ONLY**



Hold packaged samples in a -80°C freezer until pickup



Include copy of Blood Sample and Shipment Notification Form in shipper



Batch samples together (8 cryoboxes)



Sites provide dry ice for shipments

~45 lbs. per batch shipment

# Frozen Shipment Tutorial

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[HTTPS://NCRAD.ORG/SHIPPING\\_ADDRESS.HTML](https://ncrad.org/shipping_address.html)

# Specimen Packaging and Shipment: Frozen Specimen Packaging

Step 1. Place frozen cryobox in  
biohazard bag with  
absorbent sheet

❖ Important: Confirm kit number label has been  
placed on the outside of cryobox



# Specimen Packaging and Shipment: Frozen Specimen Packaging

Step 2. Place 2-3 inches of dry ice in the bottom of the styrofoam shipping container

Step 3. Insert cryoboxes with tubes upright

Step 4. Fully cover all cryoboxes with 2 inches of dry ice

**Reminder:** Batch Shipper holds 8 cryoboxes



# Blood Sample and Shipment Notification Form

## Step 5. Include Blood Sample & Shipment Notification Form in Cardboard Shipper

- ✓ Fill out completely during study visit
- ✓ Include Kit Number Label on Form
- ✓ Take a copy of each form prior to shipment.
- ✓ Include physical copies of forms in shipper.

### Appendix B: Blood Sample and Shipment Notification Form

Please email or fax the form on or prior to the date of shipment.

To: Kelley Faber    Email: <a href="mailto:alzstudy@iu.edu">alzstudy@iu.edu</a> Phone: 1-800-526-2839/317-278-8413			
From: _____		UPS tracking #: <b>1Z976R8W84</b>	
Phone: _____		Email: _____	
Study: <b>Nicotinic Acid</b>		Participant ID: _____	
Year of Birth: _____		Sex: <input type="checkbox"/> M <input type="checkbox"/> F	
Visit: <input type="checkbox"/> Day 0 <input type="checkbox"/> Day 60		KIT BARCODE	
<i>Blood Collection:</i>			
Date of Draw: _____ [MMDDYY]		Time of Draw: _____ [HHMM]	
Date participant last ate: _____ [MMDDYY]		Time participant last ate: _____ [HHMM]	
<i>Blood Processing:</i>			
<b>Plasma &amp; Buffy Coat (EDTA Tube)</b>			
Original blood volume of EDTA #1: _____	_____	Original blood volume of EDTA #2: _____ mL	_____ mL
Time spin started: _____ [HHMM]	_____ [HHMM]	Duration of centrifuge: _____ mins	_____ mins
Temp of centrifuge: _____ °C	_____ °C	Rate of centrifuge: _____ x g	_____ x g
Time aliquoted: _____ [HHMM]	_____ [HHMM]	Number of 1.5 mL plasma aliquots created (purple cap, up to 6): _____	_____
If applicable, volume of residual plasma aliquot (less than 1.5 mL in blue cap): _____ mL <input type="checkbox"/>	N/A	If applicable, specimen number of residual plasma aliquot ( <b>Last four digits</b> ): _____	<input type="checkbox"/> N/A
Buffy coat #1 specimen number ( <b>Last four digits</b> ): _____	_____	Buffy coat #1 volume: _____ mL	_____ mL
Buffy coat #2 specimen number ( <b>Last four digits</b> ): _____	_____	Buffy coat #2 volume: _____ mL	_____ mL
Time aliquots placed in freezer: _____ [HHMM]	_____ [HHMM]	Storage temperature of freezer: _____ °C	_____ °C
<b>Notes:</b> _____			

# Shipment Notification Electronic Form

Step 6: Complete shipment notification form:  
<https://redcap.link/NCRADShippingForm>

- ✓ Enter appropriate study, contact information, and shipping information including tracking number.
- ✓ Include kit numbers and participant ID numbers for all samples in shipment.
- ✓ Upload a pdf of all sample forms. If more than one form, you will have to combine them into one pdf or zip them together prior to upload.

## NCRAD Specimen Shipment Notification Form

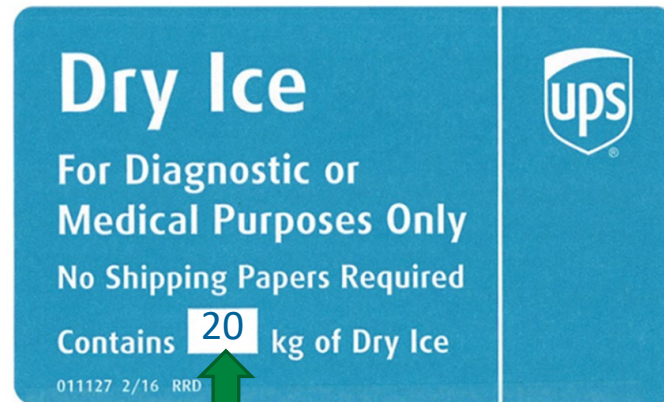
Please complete the Specimen Shipment Notification Form below. The NCRAD team will automatically be notified about your shipment upon submission of this form.

NCRAD Email: [alzstudy@iu.edu](mailto:alzstudy@iu.edu) | NCRAD Phone: 1-800-526-2839

<b>Study</b> <small>* must provide value</small>	<input type="text"/>
<b>Name of study contact completing this form</b> <small>* must provide value</small>	<input type="text"/>
<b>Email of study contact completing this form</b> <small>* must provide value</small>	<input type="text"/>
<b>Are there any additional email addresses that should be notified about the status of this shipment?</b> <small>* must provide value</small>	<input type="radio"/> No <input type="radio"/> Yes - 1 additional <input type="radio"/> Yes - 2 additional <input type="radio"/> Yes - 3 additional  <a href="#">reset</a>
<b>Courier</b> <small>* must provide value</small>	<input type="radio"/> UPS <input type="radio"/> FedEx <input type="radio"/> World Courier <input type="radio"/> US Postal Service <input type="radio"/> Other  <a href="#">reset</a>
<b>Shipment tracking number:</b> <small>* must provide value</small>	<input type="text"/> <small>"N/A + Ship Date" for USPS shipments without a tracking number</small>
<b>Is this shipment frozen or ambient?</b> <small>* must provide value</small>	<input type="radio"/> Ambient <input type="radio"/> Frozen  <a href="#">reset</a>

# Specimen Packaging and Shipment: Cardboard Package Labeling

## Step 7



Net weight of dry ice in **kg**



Dangerous Goods Label  
Additional Training Required

# Creating Airbills & Scheduling Pickups

# Navigating UPS ShipExec Tutorial

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[HTTPS://NCRAD.ORG/SHIPPING\\_ADDRESS.HTML](https://ncrad.org/shipping_address.html)

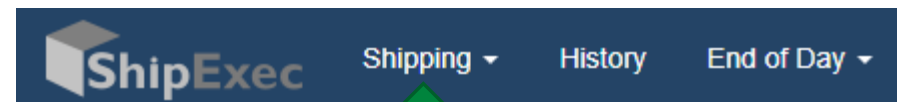
# UPS ShipExec™ Thin Client Website



Log into the ShipExec Thin Client:  
<https://kits.iu.edu/UPS>



Click on the “Shipping”  
dropdown and click on “Shipping  
and Rating”

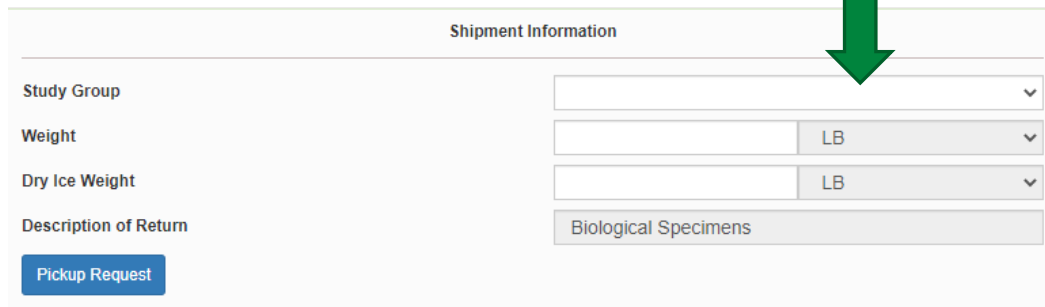


# Creating Airbills & Scheduling Pick Ups: Finding your Contact Information

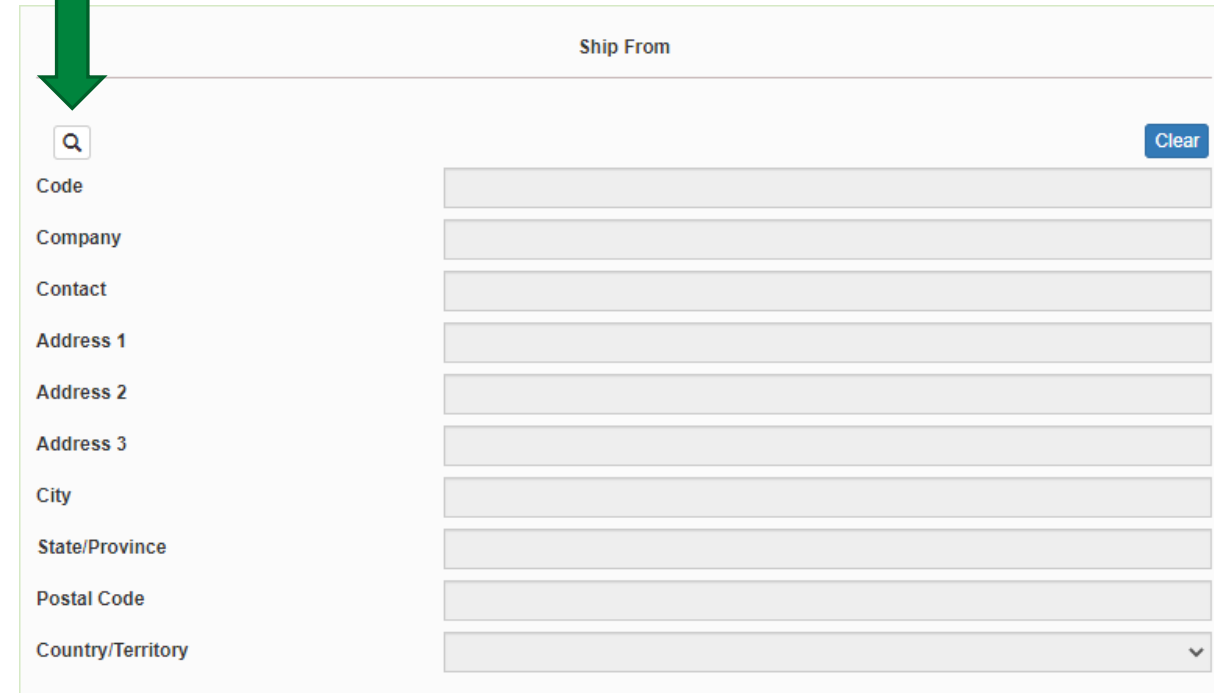
❖ On the right side of the screen, choose the name of your study from the “Study Group” drop down menu

❖ *This step must be done 1<sup>st</sup>*

❖ On the left side of the screen, Click on the magnifying glass icon



The screenshot shows a form titled "Shipment Information". It contains several fields: "Study Group" (a dropdown menu), "Weight" (a text input field with a unit dropdown set to "LB"), "Dry Ice Weight" (a text input field with a unit dropdown set to "LB"), and "Description of Return" (a text input field containing "Biological Specimens"). A blue button labeled "Pickup Request" is located at the bottom left. A large green arrow points down to the "Study Group" dropdown menu.



The screenshot shows a form titled "Ship From". It features a search bar with a magnifying glass icon on the left and a "Clear" button on the right. Below the search bar are several input fields: "Code", "Company", "Contact", "Address 1", "Address 2", "Address 3", "City", "State/Province", "Postal Code", and "Country/Territory" (a dropdown menu). A large green arrow points down to the magnifying glass icon.

# Creating Airbills & Scheduling Pick Ups: Entering Shipment Information

- ❖ Enter the total weight of your package in the “Weight” field
- ❖ Enter the dry ice weight in the “Dry Ice Weight” field
  - The “Dry Ice Weight” field cannot be higher than the “Weight” field (will receive an error message)

Shipment Information

Study Group	<input type="text"/>	▼
Weight	<input type="text"/>	LB ▼
Dry Ice Weight	<input type="text"/>	LB ▼
Description of Return	Biological Specimens	

[Pickup Request](#)

# Creating Airbills & Scheduling Pick Ups: Scheduling Pickup Request

- ❖ Click on the “Pickup Request” button
- ❖ Fill out all fields for the pickup request
- ❖ Enter in the “Earliest Time Ready” and “Latest Time Ready” in 24-hour format separated by colon.
- ❖ Choose a name and number that is the best to contact if the UPS driver has questions related to picking up your package
- ❖ Entering the Room Number and Floor will help the UPS driver locate your package
- ❖ Hit “Save” when done

Shipment Information

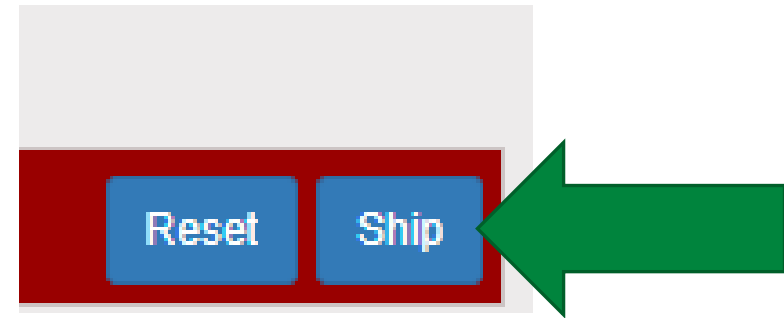
Study Group	<input type="text"/>	▼
Weight	<input type="text"/>	LB ▼
Dry Ice Weight	<input type="text"/>	LB ▼
Description of Return	Biological Specimens	

Create Pickup Request ×

Pickup Date	<input type="text" value="2021-03-15"/>	
Earliest Time Ready	<input type="text" value="HH:MM (24 hours format)"/>	
Latest Time Ready	<input type="text" value="HH:MM (24 hours format)"/>	
Contact Name	<input type="text"/>	
Contact Phone	<input type="text"/>	
Payment Method	Pay by shipper account ▼	
Room Number	<input type="text"/>	
Floor	<input type="text"/>	

# Creating Airbills & Scheduling Pick Ups: Shipping Packages

- ❖ If all fields in “Ship From” and “Shipment Information” fields are completed, and pickup request is completed (if necessary) then click “Ship” in the bottom right corner of the page



# Shipment Receipt

## ShipExec™ Shipment Receipt

Transaction Date: Tuesday, December 8, 2020

Pickup No: 2929602E9CP

### Address Information

Ship To:  
John Smith  
Indiana University  
980 W. Walnut Street  
Indianapolis, IN 46202

Shipper:  
lugb  
Iu School Of Medicine  
351 W 10Th St  
Indianapolis, IN 46202

Ship From:  
lugb  
Iu School Of Medicine  
351 W 10Th St  
Indianapolis, IN 46202

### Shipment Information

Service: UPS Next Day Air (UPS Adapter)

### Package Information

Pkg No	Tracking No	Packaging Type	Actual Wt	Billable Wt	Insured Value
1	1Z976R8W8430841976	Customer Packaging	20.0	20	0.00

- ❖ Check Pickup Status by going to [UPS.com](https://www.ups.com), click on the Shipping, select Schedule a Pickup, and look on the right side of screen to click on "Pickup Request Status". Enter in the Pickup No. listed on receipt into PRN field and submit

# Airbill

JOHN SMITH  
317-555-1234  
INDIANA UNIVERSITY  
980 W. WALNUT STREET  
INDIANAPOLIS IN 46202

20 LBS

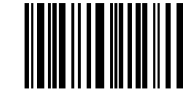
1 OF 1

RS

SHIP TO:  
IUGB  
317-278-6158  
IU SCHOOL OF MEDICINE  
TK 217  
351 W 10TH ST  
INDIANAPOLIS IN 46202



IN 461 9-01



UPS NEXT DAY AIR

1

TRACKING #: 1Z 976 R8W 84 3084 1976



BILLING: P/P  
DESC: Biological Specimens  
RETURN SERVICE  
UN1845, DRY ICE, CLASS 9, 1 x 4.5 KG  
AUDIT REQUIRED

Reference No.1: 6683830

# Creating Airbills & Scheduling Pick Ups: Reprinting/Voiding Airbills

The screenshot shows the ShipExec Thin Client portal. At the top, there is a navigation bar with the ShipExec logo and three tabs: 'Shipping', 'History', and 'End of Day'. A green arrow points to the 'History' tab. Below the navigation bar, there is a search filter section with various input fields: 'Start Ship Date' (2021-03-15), 'End Ship Date' (2021-03-15), 'Site' (Select Site...), 'Shipper', 'Carrier', 'Service', 'Global MSN', 'Global Bundle ID', 'Ship Id', 'Tracking Number', 'Batch Reference', 'Batch Item Reference', 'Shipper Reference', and 'Consignee Reference'. There are also 'Consignee' and 'Show Misc References' buttons. At the bottom, there are 'Search' and 'Clear' buttons. A green arrow points to the 'Search' button.

The diagram shows a flow from a 'Void' box at the bottom to a 'Reprint' box at the top, with a green arrow pointing up and another pointing down. Below the 'Reprint' box is a table of shipment data. The table has columns for 'Action', 'Global MSN', 'Tracking Number', 'Shipper Reference', 'Consignee Reference', 'Ship Date', 'Weight', 'Rated Weight', and 'Dimension'. The first row of data shows a search icon, a refresh icon, and a printer icon in the 'Action' column, '9506' in the 'Global MSN' column, '1Z976R8W8430841976' in the 'Tracking Number' column, an empty cell in the 'Shipper Reference' column, '6683830' in the 'Consignee Reference' column, '2020-12-08' in the 'Ship Date' column, '20 LB' in the 'Weight' column, '20 LB' in the 'Rated Weight' column, and an empty cell in the 'Dimension' column.

Action	Global MSN	Tracking Number	Shipper Reference	Consignee Reference	Ship Date	Weight	Rated Weight	Dimension
	9506	1Z976R8W8430841976		6683830	2020-12-08	20 LB	20 LB	

- To reprint airbill or void a shipment, click “History” at the top of the ShipExec Thin Client portal
- If your shipment doesn’t automatically pop up, enter in the date of shipment and then click “Search”

# Non-Conformance Issues

# Non-Conformance

# Solution

Low volume aliquots	Put cryovials in a row, aliquoting in order until sample is depleted
Tubes received frozen at an angle/inverted	Carefully place tubes upright in freezer and in shipper
Aliquots are not labeled or labeled incorrectly	Refer to training or MOP for correct label placement. Save all labels until samples are packed for shipping.
All frozen samples for one participant are not sent within one shipment box	Keep plasma and buffy coat for individual participants together. Use one cryobox per participant
Sample and Shipment Form left blank or incorrect data is given	Complete Sample and Shipment Form during participant's study visit while samples are processed
Sample and Shipment Forms are not e-mailed or faxed to NCRAD before shipment arrives	Make copy of participants completed form after visit and save until shipment.

# Contact Information

## Questions?

Please Contact NCRAD Coordinator at:

- ❖ Phone: 1-800-526-2839
- ❖ Nicotinic Acid Coordinator E-mail: [joglogoz@iu.edu](mailto:joglogoz@iu.edu)
- ❖ NCRAD General E-mail: [alzstudy@iu.edu](mailto:alzstudy@iu.edu)
- ❖ Website: [www.NCRAD.org](http://www.NCRAD.org)
- ❖ Study Webpage: [www.ncrad.org/coordinate-studies/nicotinic-acid](http://www.ncrad.org/coordinate-studies/nicotinic-acid)