BIOSEND

Study in Parkinson Disease of Exercise Phase 3 Clinical Trial: SPARX3

BIOSPECIMEN COLLECTION & PROCESSING

Overview

- 1. Specimen uniformity and quality
- 2. Site Equipment
- 3. Procedures
 - Kit Ordering
 - Sample Labels
 - Sample Collection and Processing
 - Shipping Closures
- 4. Contact Information

Specimen Uniformity and Quality

GENERAL REMINDERS

Specimen Uniformity and Quality

Most biomarkers are sensitive to *time* and *temperature*

- Standardization of processing across sites is key
- Reference the BioSEND Specimen Collection, Processing, and Shipment Manual as needed
- Do not replace or supplement any kit components without first receiving approval from BioSEND/NINDS

Questions? Email biosend@iu.edu

Site Equipment

Sites will need to supply the following items:

Phlebotomy

- Gloves
- Alcohol wipes
- Butterfly needles
- Tourniquet
- Gauze pads
- Bandages
- Sharps bin and lid



Site Equipment

Sites will need to supply the following items:

Processing

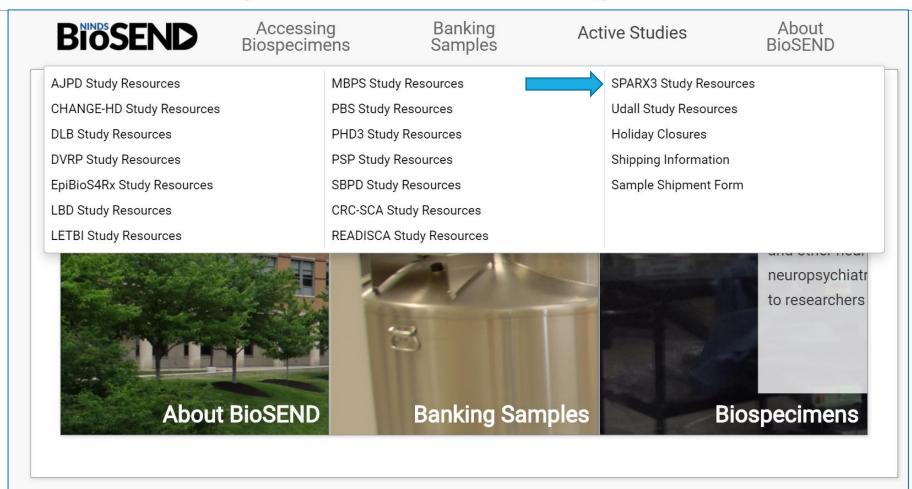
- Crushed ice
- Microcentrifuge tube rack
- Calibrated micropipettes and pipette tips (adjustable or fixed at 200 μl and 500 μl)
- Centrifuge capable of maintaining 4°C with adapter for microtubes
- -80°C Freezer
- Dry ice



Collection Protocol

| Visit & Sample Type | BL | 6M | 12M | 18M | 24M |
|-------------------------------|----|----|-----|-----|-----|
| Serum aliquots, 1.5ml | 6 | 6 | 6 | 6 | 6 |
| Plasma aliquots, 1.5 ml | 6 | 6 | 6 | 6 | 6 |
| Buffy Coat | 2 | 2 | 2 | 2 | 2 |
| Whole Blood, 3ml | 2 | 2 | 2 | 2 | 2 |

Kit Ordering – Biosend.org



Direct link to kit ordering system:

http://kits.iu.edu/biosend/sparx3/

Study in Parkinson Disease of Exercise Phase 3 Clinical Trial (SPARX3) Study Page

Welcome SPARX3 Study staff, coordinators, and PIs. This section encompasses study specific tools and resources for your reference. If you have any questions, comments, or new ideas please contact biosend@iu.edu or by phone directly at (317)278-0594.

Specimen Table

| Cohort | Population | Genomic DNA | Plasma | Whole Blood |
|--------|------------|----------------|----------|----------------|
| SPARX3 | PD Cases | √ | √ | √ |

Study Resources

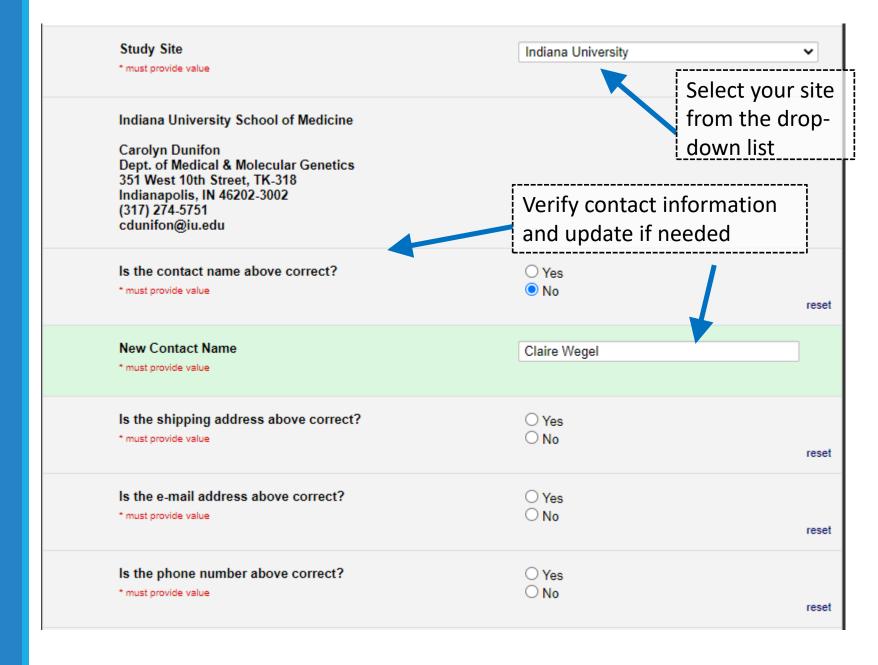
Kit Request Module

Please follow the below link to access the SPARX3 Kit Request Module. This link will direct you to a REDCap database where study coordinators and staff may request kits, individual supplies, and/or labels. Please allow a total of two weeks for kit requests to be compiled and delivered to your site.

SPARX3 Kit Request System

Kit Contents and Ordering

SSBC Kit Request Module



Confirm Shipping Info

Confirm site information:

- Study site
- Shipping address
- Contact name
- Email
- Phone Number

| Indiana University Carolyn Dunifon Indiana University School of Medicine 351 West 10th Street TK-217 Indianapolis, IN 46202 (317) 274-5751 biosend@iu.edu | | |
|--|---------------|-------|
| Is the contact name above correct? * must provide value | ○ Yes ○ No | reset |
| Is the shipping address above correct? * must provide value | ○ Yes ○ No | reset |
| Is the e-mail address above correct? * must provide value | ○ Yes ○ No | reset |

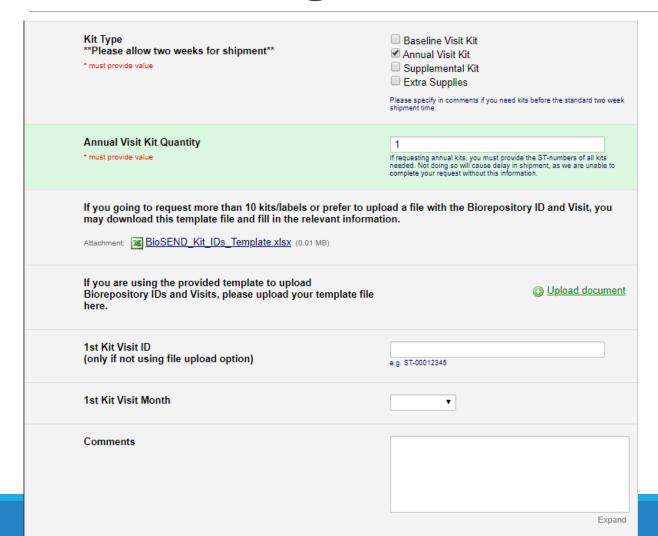


Multiple kit types available

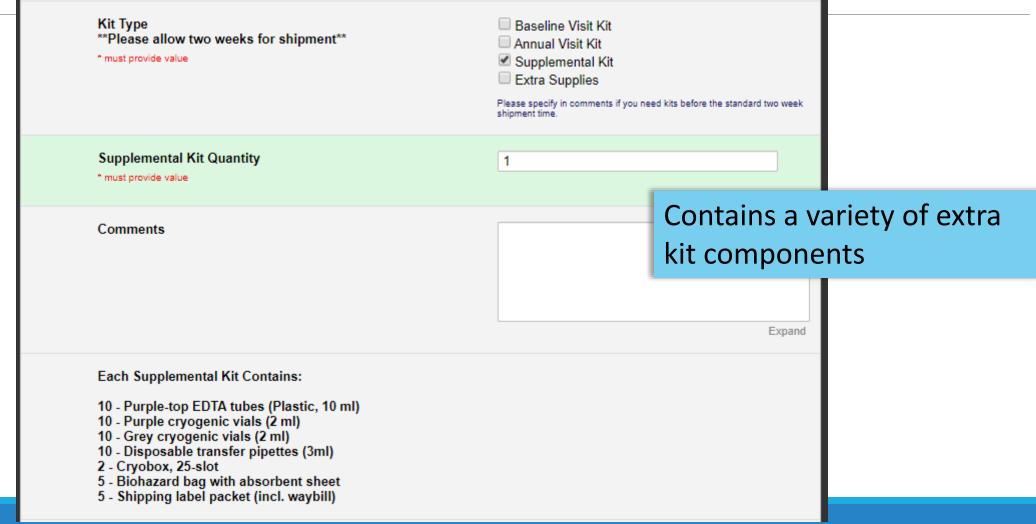
| Kit Type **Please allow two weeks for shipment** * must provide value | ☑ Baseline Visit Kit ☑ Annual Visit Kit ☑ Supplemental Kit ☑ Extra Supplies Please specify in comments if you need kits before the standard two we shipment time. |
|---|---|
| Baseline Visit Kit Quantity * must provide value | |

- BioSEND creates ST-Numbers for baseline kits
- ST#s serve as the biorepository subject identifier
- Enter kit quantity

Please note: the ST-Number provided in a BL kit can be used for any subject's BL visit. This ST number is a subject identifier and will need to stay linked to the patient through the entirety of the study.



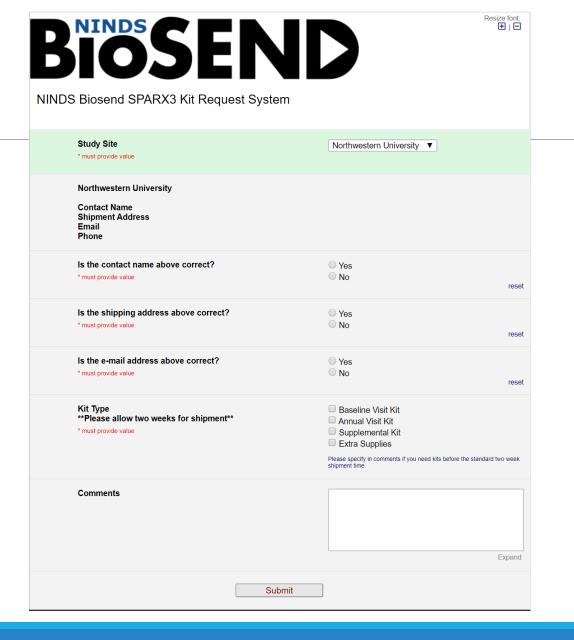
Please provide ST# and visit type for follow-up kits. We cannot complete your request without this information.



Allows you to choose specific supplies and particular quantities

| Kit Type **Please allow two weeks for shipment** * must provide value | ■ Baseline Visit Kit ■ Annual Visit Kit ■ Supplemental Kit ■ Supplemental Kit ■ Extra Supplies Please specify in comments if you need kits before the standard two week shipment time. |
|---|---|
| Resealable Tube Pouches | ○ 2 ○ 4 reset |
| Cryobox | ② 2 ③ 4 reset |
| Cryogenic Vial (2 ml) - Grey | ○ 10 ○ 20 reset |
| Cryogenic Vial (2 ml) - Purple | ○ 10 ○ 20 reset |
| FedEx® return Airbill | ② 2 ③ 4 reset |
| Shipping Container for Dry Ice Shipments (includes shipping labels & airbill) | O 2 O 4 reset |

- Click "Submit" to send order to BioSEND; staff will confirm receipt of your order
- Please allow two week turnaround time for kit shipments
- If urgent request needed, please note date needed by in comments and email BioSEND



Sample Labelling

Labels are provided by Indiana University

• Please check that all samples are properly labelled with correct specimen type and visit

ST-10001229: SPARX3:BL

BioSend

Case Labels

BioSEND-SPARX3

PLASMA

ST-10001234

Cryovial Labels

0001234567

BioSEND

ST-10001234

BL PLASMA

Collection Tube Labels

Sample Labelling – Case Labels

ST-10001229: SPARX3:BL



BioSend

Subject Number

Study and Visit



Biorepository Name

Sample Labelling – Case Labels

Case labels are placed:

- On the biohazard bag of the cryovial transport box and biohazard bag with EDTA.
- On the lid of frozen shippers





Sample Labelling – Collection Tube Labels

0001234567



BioSEND

ST-10001234 BL

PLASMA



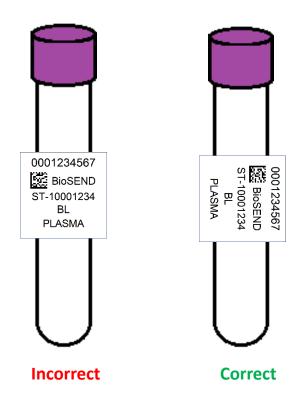








Sample Labelling – Collection Tube Labels



Sample Labelling – Cryotube Labels

BioSEND-SPARX3

PLASMA

ST-10001234

Biorepository/Study

Sample Type

Subject Number

Sample Labelling – Cryotube Labels

Note: cryotube barcodes are printed on tube, not on the label. Barcodes are tied to the specific kit they arrive in (ie, a specific subject and visit). Please do not mix the labels from one kit with the cryotubes from another.

Barcode is in human readable format on side of tube, 2D format on bottom of tube



BIOSEND-SPARX3
BUFFY COAT
ST-10001234

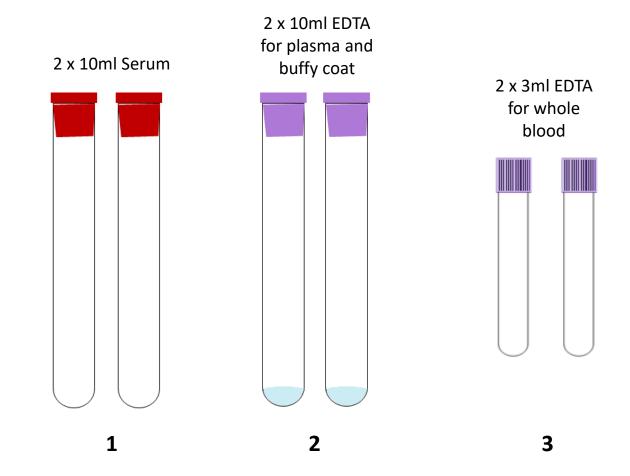
Sample Labelling – Cryotube Labels

Please verify that you are using the correct cryotube for the correct specimen type

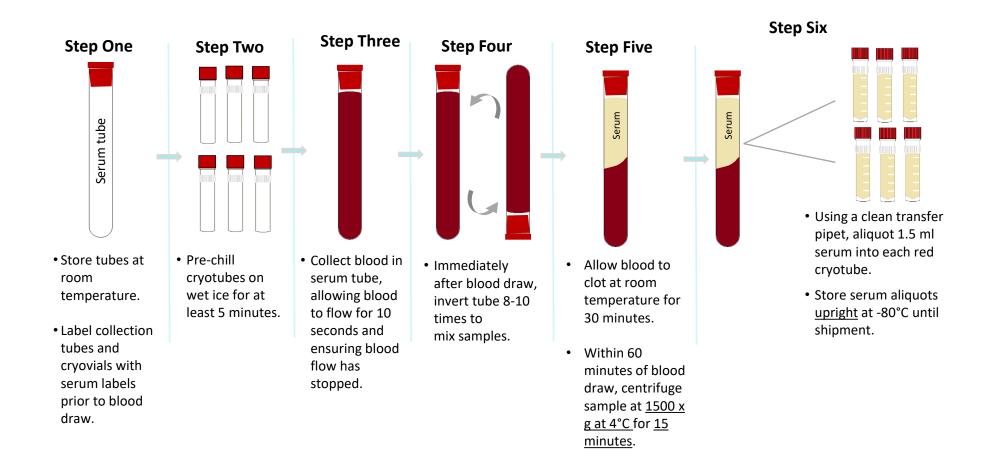
| Cap Color | Specimen Type |
|-----------|---------------|
| Purple | Plasma |
| Grey | Buffy Coat |
| Red | Serum |

Sample Collection and Processing

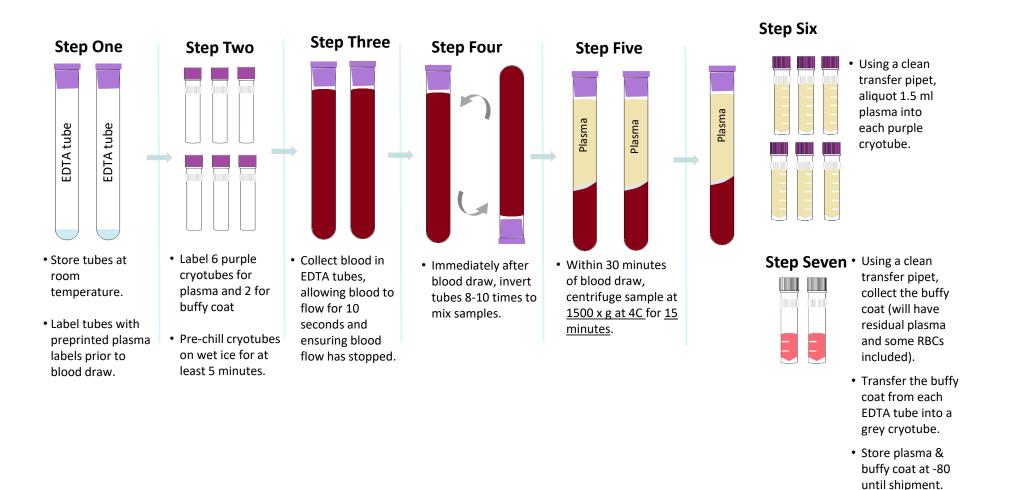
Blood Tube Draw Order



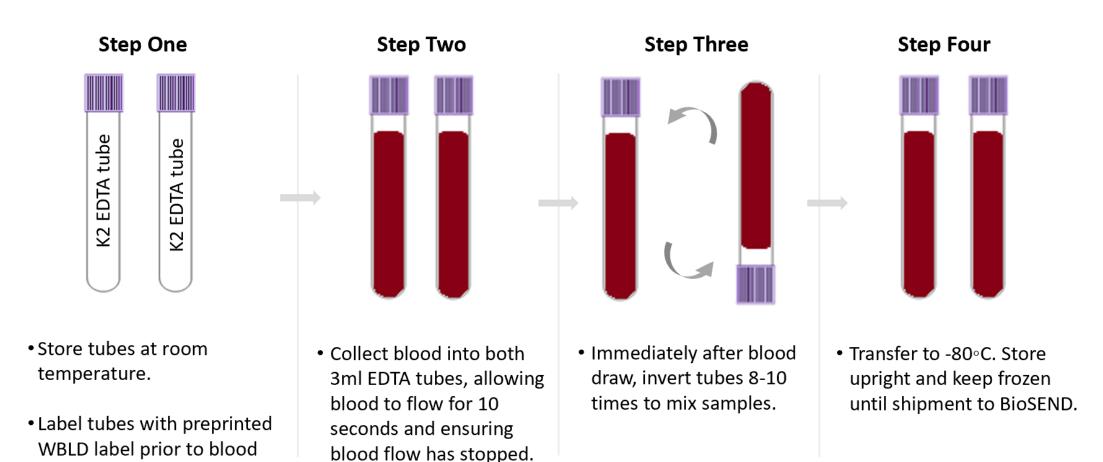
Sample Collection and Processing: Serum



Sample Collection and Processing: Plasma & Buffy Coat



Sample Collection and Processing: Whole Blood



draw.

Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- All SPARX3 samples ship frozen
- Ship frozen samples on dry ice
- Frozen samples should be shipped only Monday through Wednesday
- Always fill carton to top with dry ice
- Do not pack shipment until the day of pickup



Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- Shippers use approx. 10lbs of dry ice
- Place layer of dry ice in between cryoboxes





Shipping Frozen Samples

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

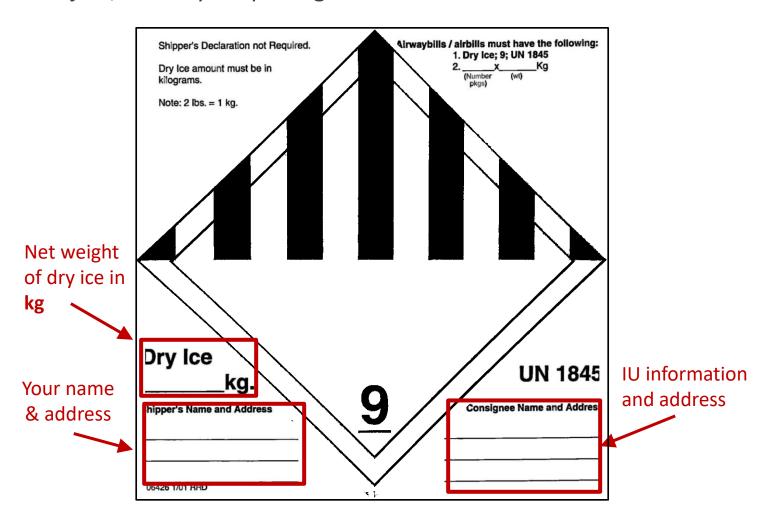
Samples should be received at BioSEND within 2 weeks of collection.



Shipping Samples

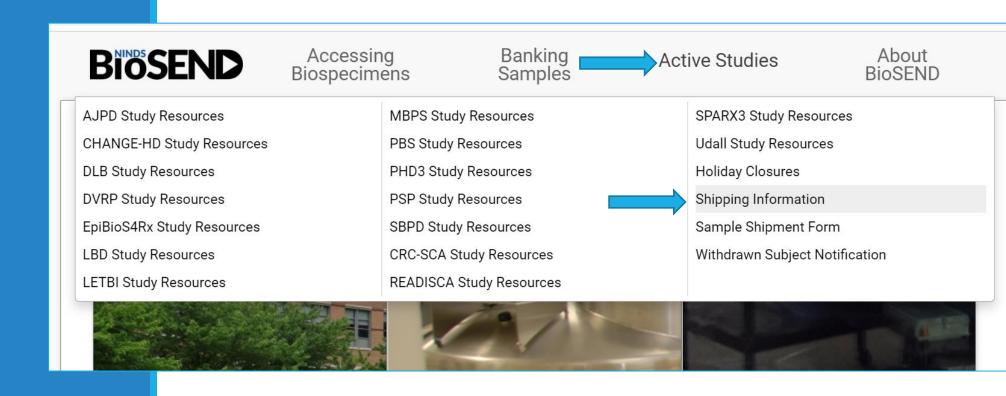
Packing and Shipping Frozen Samples

Class 9 Dry Ice Label should not be covered with other stickers and must be completed, or courier will reject/return your package!



Shipping Samples

UPS resources available on BioSEND website





Links on this page to generate airwaybills, schedule pickups, request account, and view a guide for using the UPS ShipExec Thin Client system.



Accessing Biospecimens Banking Samples

Active Studies

About BioSEND





Shipping Address

BioSEND

Indiana University School of Medicine

351 West 10th Street

TK-217

Indianapolis, IN 46202

UPS Shipping Resources

To generate air waybills and schedule UPS pickups for shipments to BioSEND, please visit the UPS $ShipExec^{T}$ Thin Client website.

For instructions on how to use the UPS ShipExec™ Thin Client website, please refer to the BioSEND UPS ShipExec™ Thin Client Guide

To request a new user account for UPS ShipExec[™] Thin Client or to request an update to your site's address in the system, please use this form to submit your request.

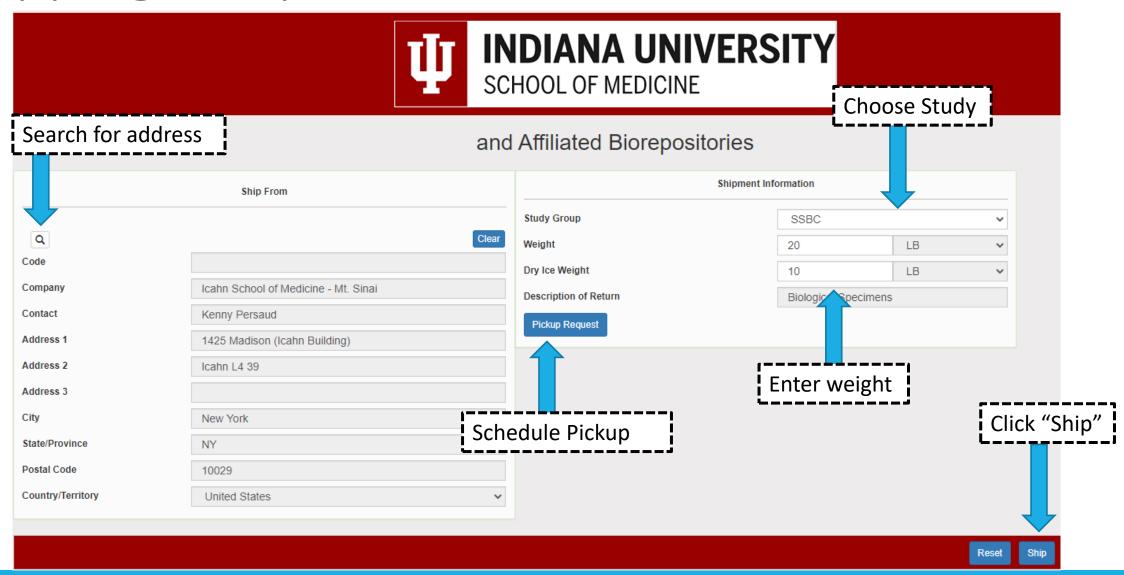
Additional Resources

Sample Submission Form UPS ShipExec™ Guide

Contact Us

biosend@iu.edu 317-278-0594

Shipping Samples – UPS: https://kits.iu.edu/UPS



Shipping Samples

UPS

- Print out UPS air waybill
- Fold and insert UPS air waybill into clear plastic sleeve on package

JOHN SMITH INDIANA UNIVERSITY 410 WEST 10TH STREET INDIANAPOLIS IN 46202 2 LBS

1 OF 1

RS

SHIP TO:

SCHOOL OF MEDICINE 317-278-2694 INDIANA UNIVERSITY TK 217 351 W 10TH ST

INDIANAPOLIS IN 46202



IN 461 9-01



UPS NEXT DAY AIR

TRACKING #: 1Z 976 R8W 84 3985 8595

1



BILLING: P/P
DESC: Biological Specimens
RETURN SERVICE

Reference No.1: 4087277

XOL 20.03.09 NV45 83.0A 12/2019

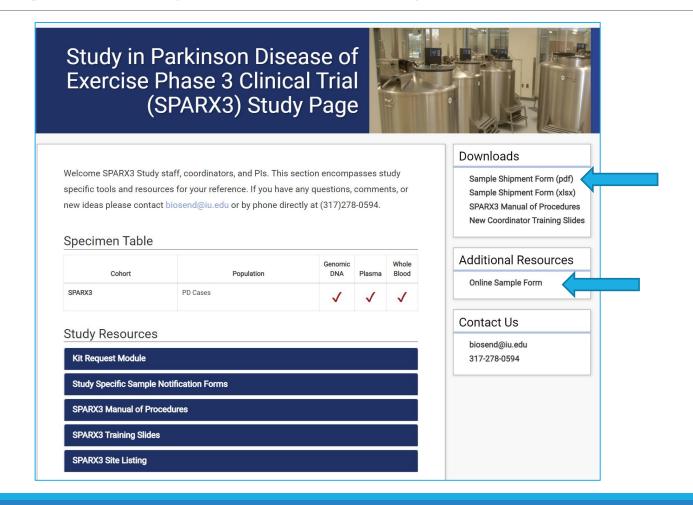


Shipping Samples: Notification

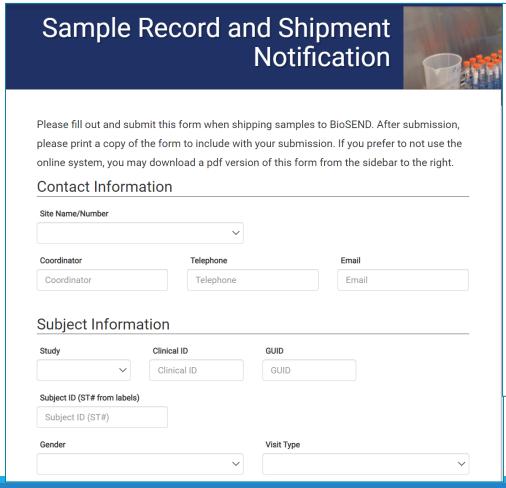
Please notify BioSEND ahead of shipment

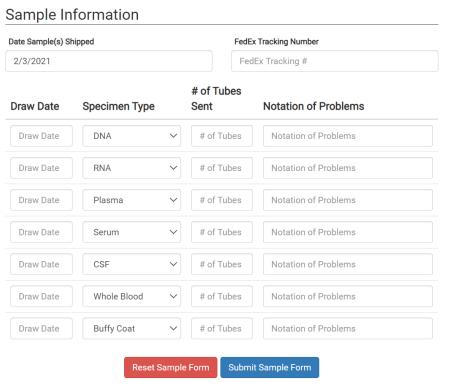
- Email <u>biosend@iu.edu</u> with copy of Sample Form and tracking number
- OR use Online Sample form on biosend.org

Shipping Samples: Sample Form



Shipping Samples: Sample Form





Shipping Samples: Closures

| Date | Holiday |
|--------------------------------------|-----------------------------|
| January 1 | New Year's Day |
| 3 rd Monday in January | Martin Luther King, Jr Day |
| 4 th Monday in May | Memorial Day |
| July 4 | Independence Day (observed) |
| 1 st Monday in September | Labor Day |
| 4 th Thursday in November | Thanksgiving |
| 4 th Friday in November | Friday after Thanksgiving |
| December 25 | Christmas |

Please also consider weather when shipping. UPS will post service updates on their webpage. Reach out to BioSEND if you an unsure if it is safe to ship.

Non-Conformance Reporting

Most common non-conformance issues:

- Samples shipped for weekend/holiday delivery
- Sample form incomplete/inaccurate
- Unlabeled or mislabeled tube(s)
- Sample hemolysis



Contacts

Indiana University

General Questions/Shipment Notifications:

biosend@iu.edu

Biorepository Project Manager:

Claire Wegel

cwegel@iu.edu

Tel: 317.278.6158

Biorepository Clinical Research Coordinator:

Carolyn Dunifon

cdunifon@iu.edu

Tel: 317.274.5751