BIOSEND

Longitudinal Imaging Biomarkers of Disease Progression in DLB

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:

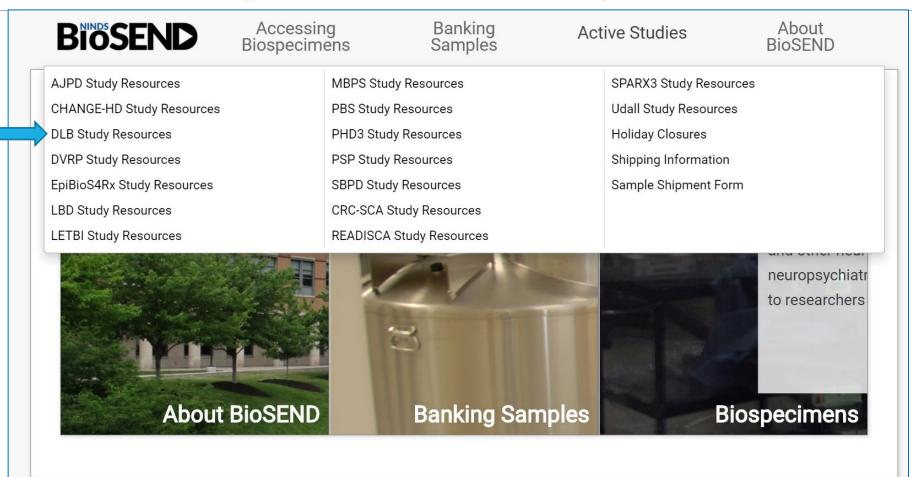
- Gloves
- Alcohol wipes
- Butterfly needles
- Tourniquet
- Gauze pads
- Bandages
- Microcentrifuge tube rack
- Sharps bin and lid

- Crushed ice
- Pipettes and pipette tips
- Centrifuge capable of maintaining 4°C
- -80°C Freezer
- Dry ice

Biospecimen Collection Protocol

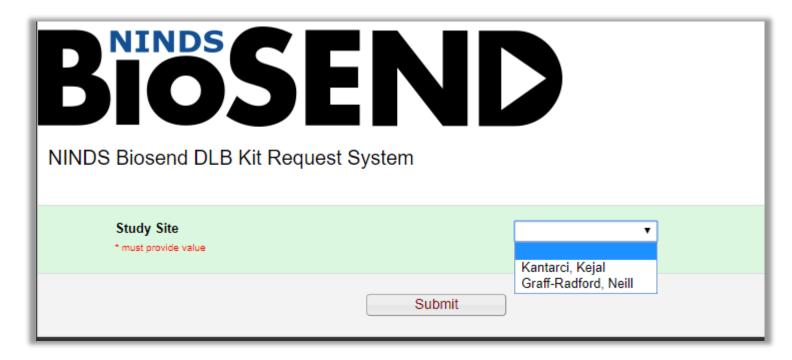
| | BL | 12M | 24M | 36M | 48M |
|-------------------------|----|-----|-----|-----|-----|
| Whole Blood (2x3ml) | X | X | X | X | X |
| Plasma (6 x 1ml) | X | X | X | X | X |
| Buffy coat (2 aliquots) | X | X | X | X | X |
| Serum (6 x 1ml) | X | X | X | X | X |
| RNA (2 x 2.5ml) | X | X | X | X | X |
| CSF (10 x 1ml) | X | X | X | X | X |

Kit Ordering – Biosend.org



BioSEND Kit Request Module

- http://kits.iu.edu/biosend/dlb
- Choose your site PI from the drop-down list.



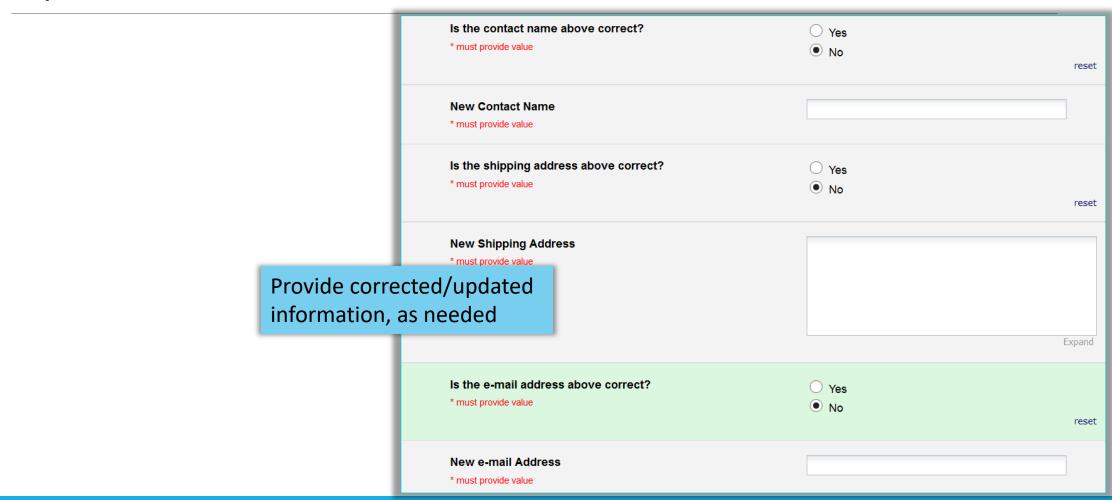
Confirm Shipping Info

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 | | | |

Update Information



Kit Type



Multiple kit types available

Baseline Kits

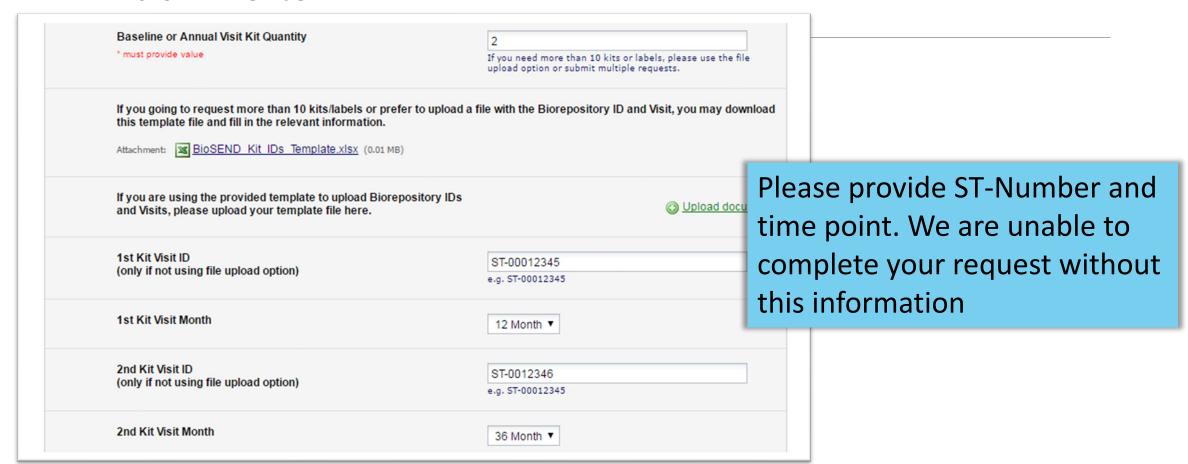
- BioSEND creates ST numbers for baseline kits
- ST#s serve as the biorepository subject identifier
- Enter kit quantity



Important Note: ST-Numbers

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.

Annual Visits



Automatic Kit Shipments

After subject completes baseline visit and <u>BioSEND receives BL samples</u>, BioSEND sets up automated kit sending schedule for subject's subsequent visits

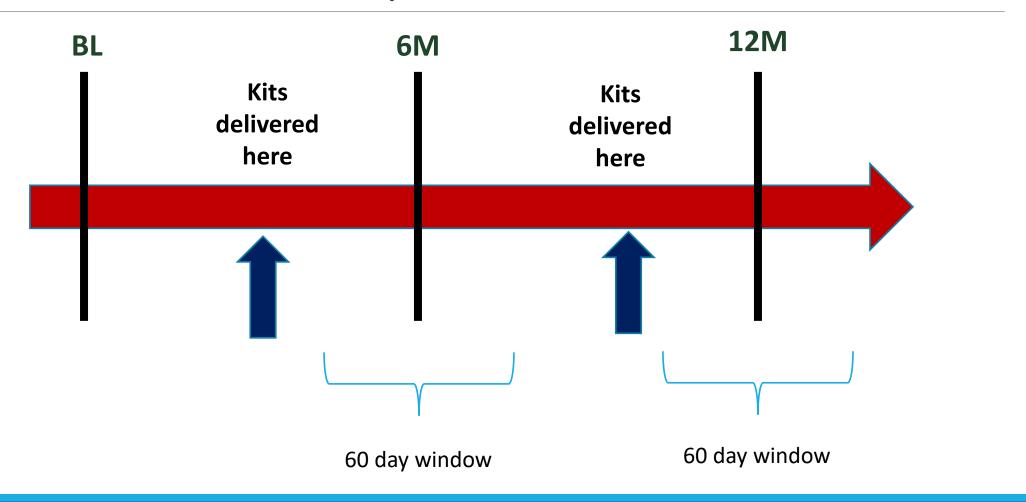
Schedule gives 2 month window around the longitudinal study visit target (1 month on either side)

BioSEND will send kits prior to start of study window

- Reduces effort for study coordinators
- Sites only need to order kits if visit will occur AHEAD of the study visit window

All study visit target dates are determined from Baseline Visit (not from last study visit date)

Automatic Kit Shipments



Supplemental Kit

Rit Type **Please allow two weeks for shipment** * must provide value Supplemental Kit Quantity * must provide value Supplemental Kit Quantity * must provide value Comments Contains a variety of extra kit components Expand

Each Supplemental Kit Contains:

- 2 100 ml absorbent sheets
- 2 6-tube bubble pouches
- 2 Cryoboxes
- 20 Siliconized sterile cryogenic vials (2 ml)
- 2 Screw-top centrifuge tubes (15 ml)
- 2 Screw-top centrifuge tubes (50 ml)
- 2 Biohazard bags
- 2 Vacutainer® PAXGene® tubes (2.5 ml)
- 2 Monoject- Lavender-top EDTA tubes (10 ml)
- 2 Vacutainer® Purple-top EDTA tubes (6 ml)
- 2 Vacutainer® Red-top serum tubes (10 ml)
- 2 Disposable transfer pipettes (1ml)
- 2 Warning label packets

Extra Supplies

Kit Type Baseline or Annual Visit Kit **Please allow two weeks for shipment** 6-Month Visit Kit * must provide value Supplemental Kit Extra Supplies Please specify in comments if you need kits before the standard two week 6-Tube Bubble Pouch 2 **4** reset Cryobox 2 4 reset Siliconized Sterile Cryogenic Vial (2 ml) **10 20** reset FedEx® return Airbill 2 4 reset **Lumbar Puncture Trays with Lidocaine** 2 **4** reset 05 Needles - Introducer reset

Allows you to choose specific supplies and particular quantities

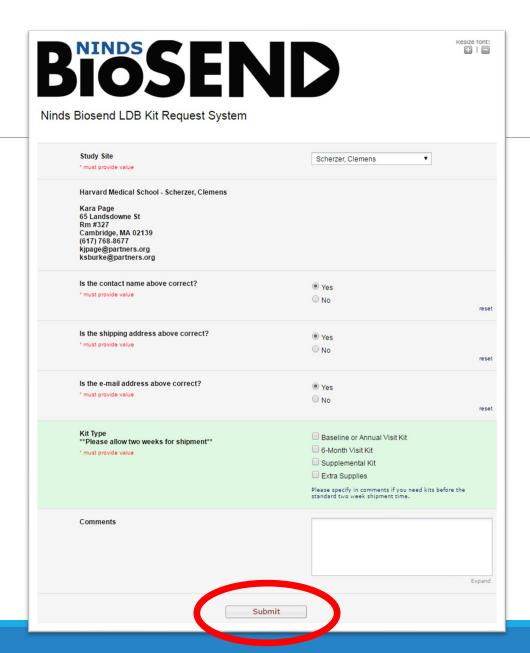
Multiple Orders



You can order more than one type of kit in a single kit request

Submit Request

- 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-10001234: DLB-GRAFF:BL



Case Labels

0001234567
BioSEND
ST-10001234

BL PLASMA

Specimen Labels

Case Label







Subject Number

Study – PI & Visit



Biorepository Name

Case Labels

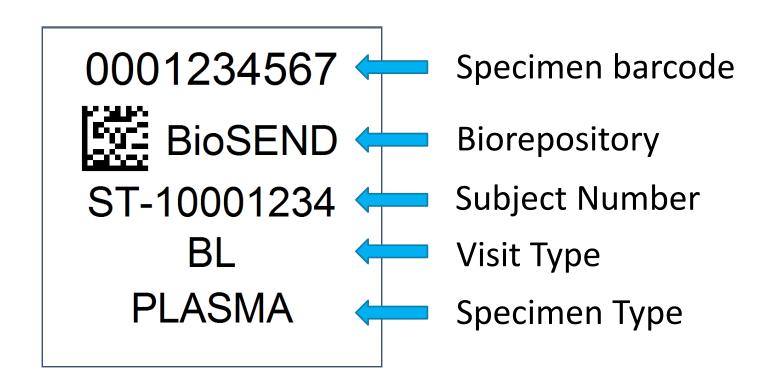
Case labels are placed:

- On the plastic biohazard bags
- On the lid of frozen shippers



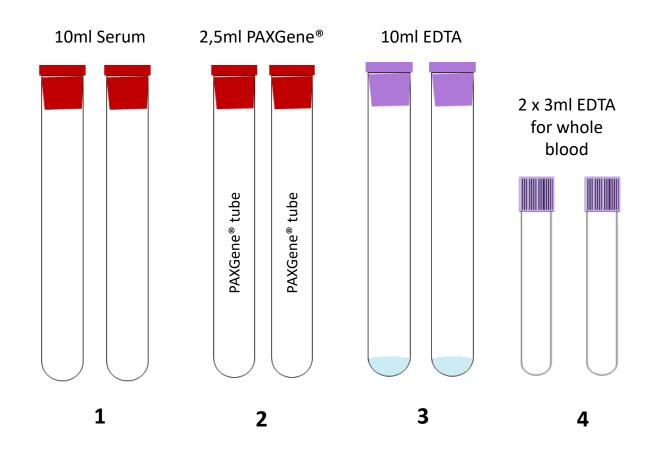


Specimen Label

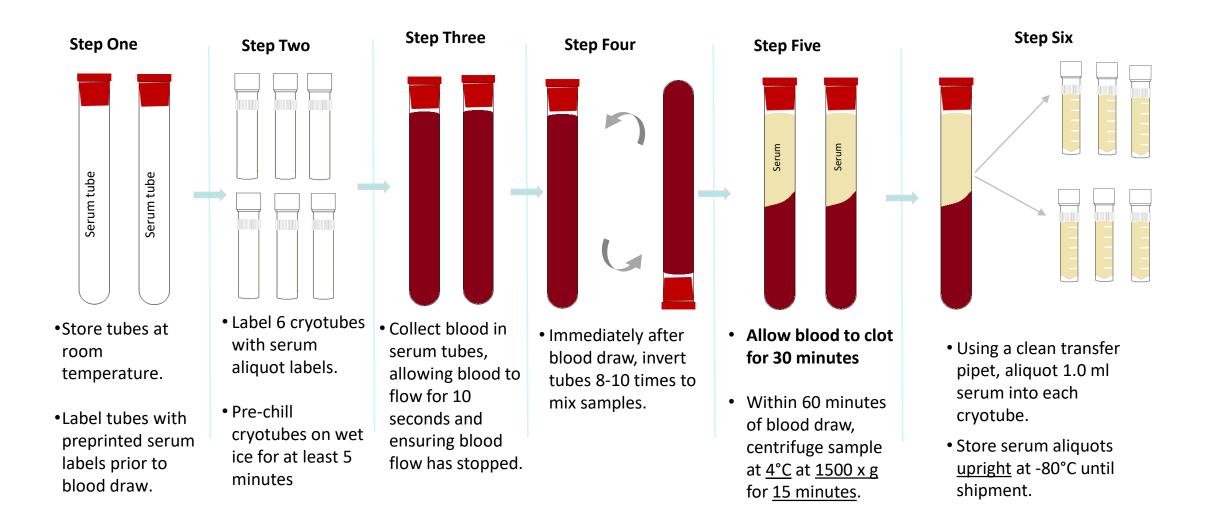


Sample Collection and Processing

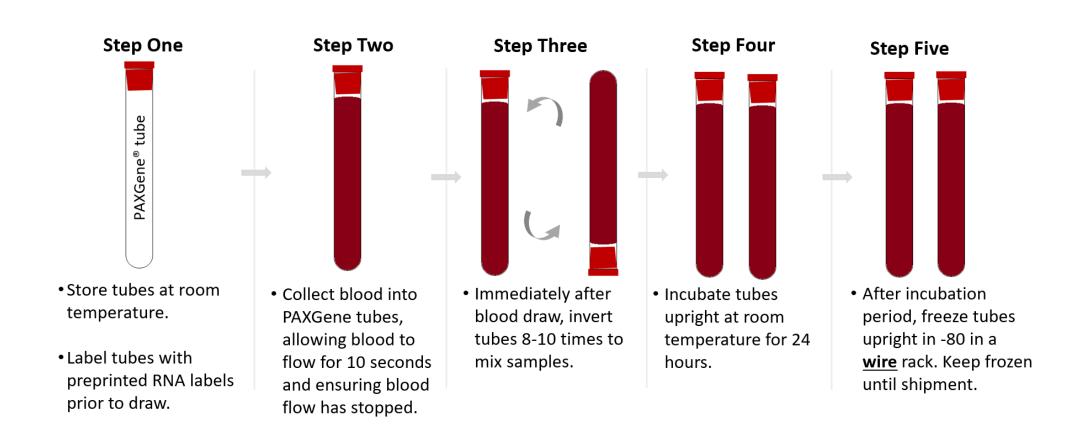
Blood Tube Draw Order



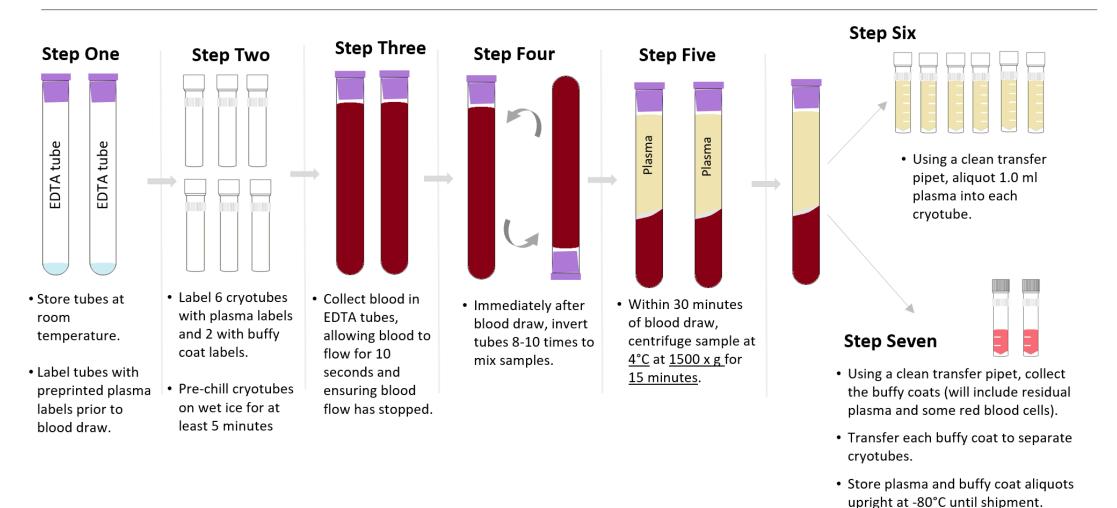
Sample Collection and Processing: Serum



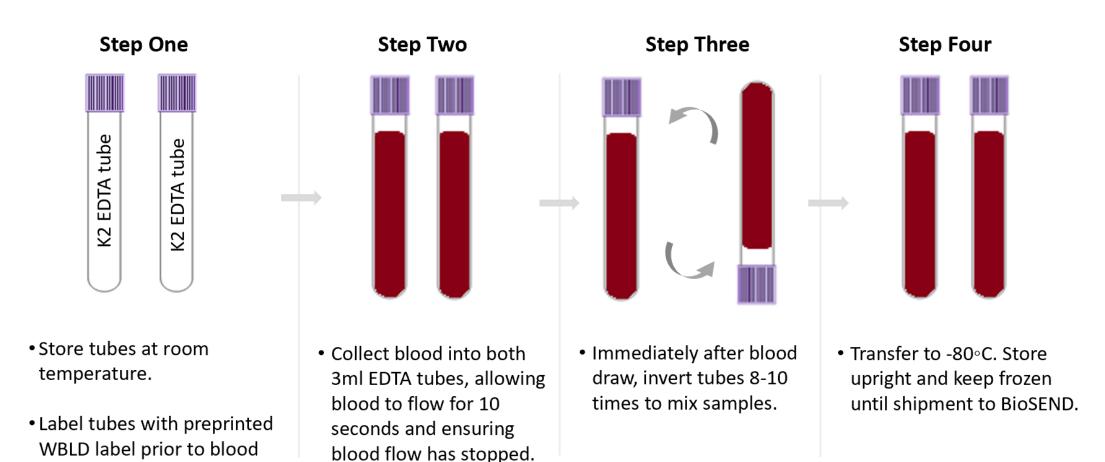
Sample Collection and Processing: RNA



Sample Collection and Processing: Plasma & Buffy Coat

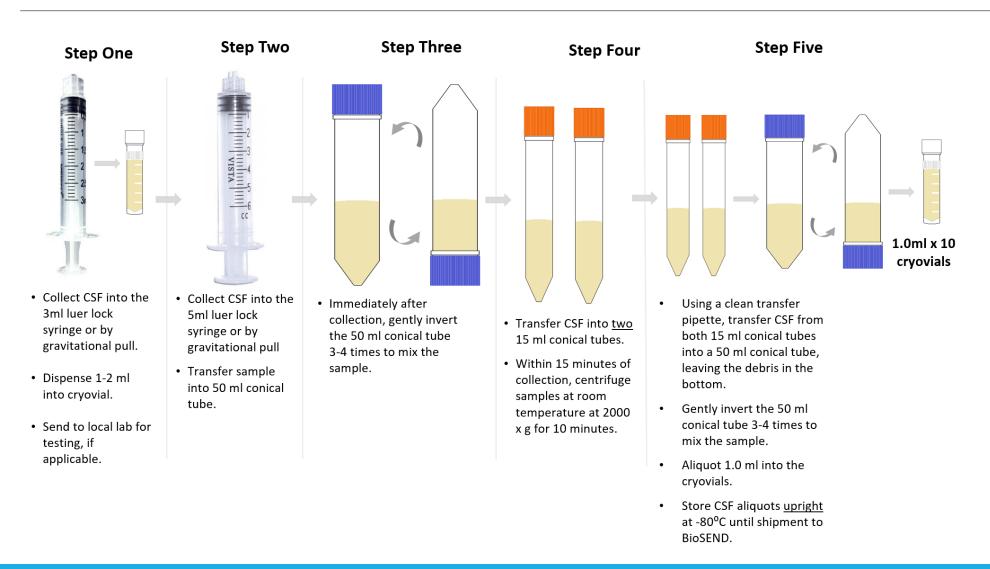


Sample Collection and Processing: Whole Blood



draw.

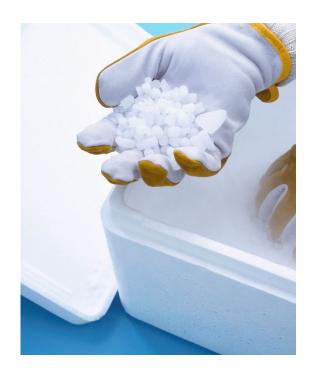
Sample Collection and Processing: CSF



Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- All other 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

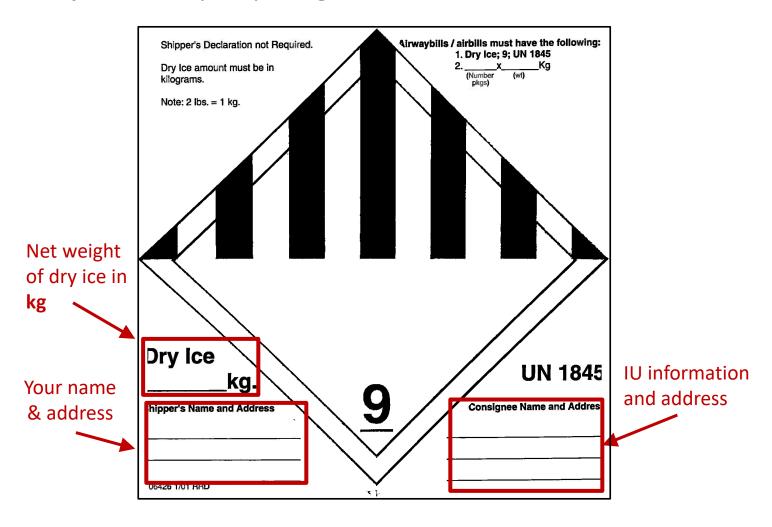




Shipping Samples

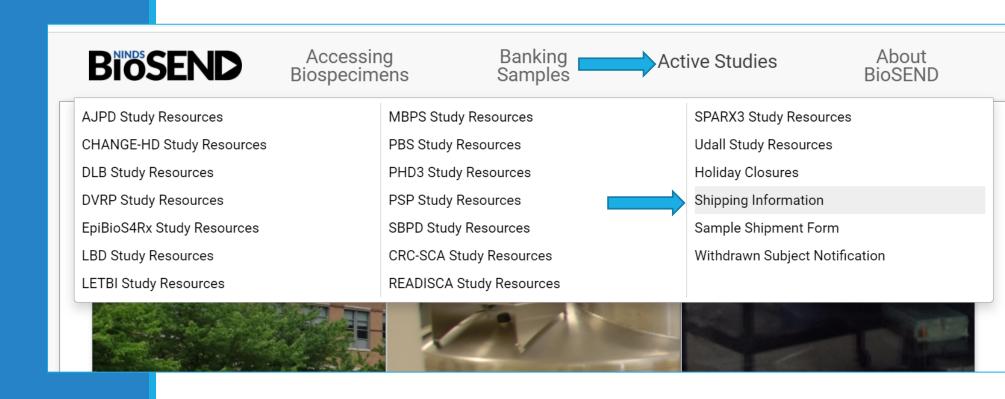
Packing and Shipping Frozen Samples

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





Shipping Samples

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 $^{\text{\tiny{M}}}$ 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

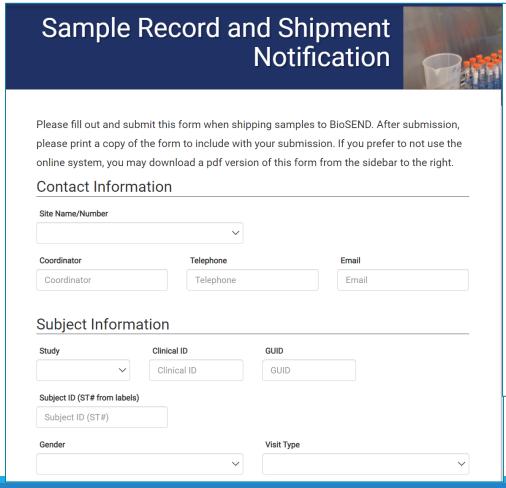
biosend@iu.edu 317-278-0594

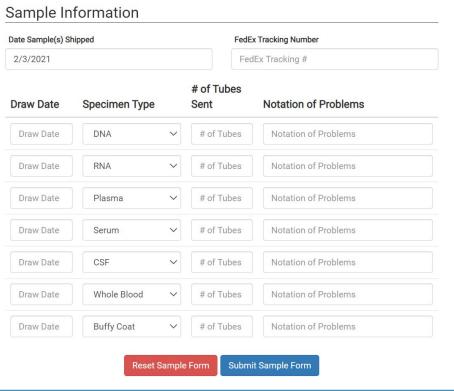
Shipping Samples: Frozen

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: 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. Please 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:

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cwegel@iu.edu

Tel: 317.278.6158

Biorepository Clinical Research Coordinator:

Carolyn Dunifon

cdunifon@iu.edu

Tel: 317.274.5751