BIOSEND

Epilepsy of Late-onset Unknown etiology as a risk factor for Cognitive Impairment and Dementia (ELUCID)

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:

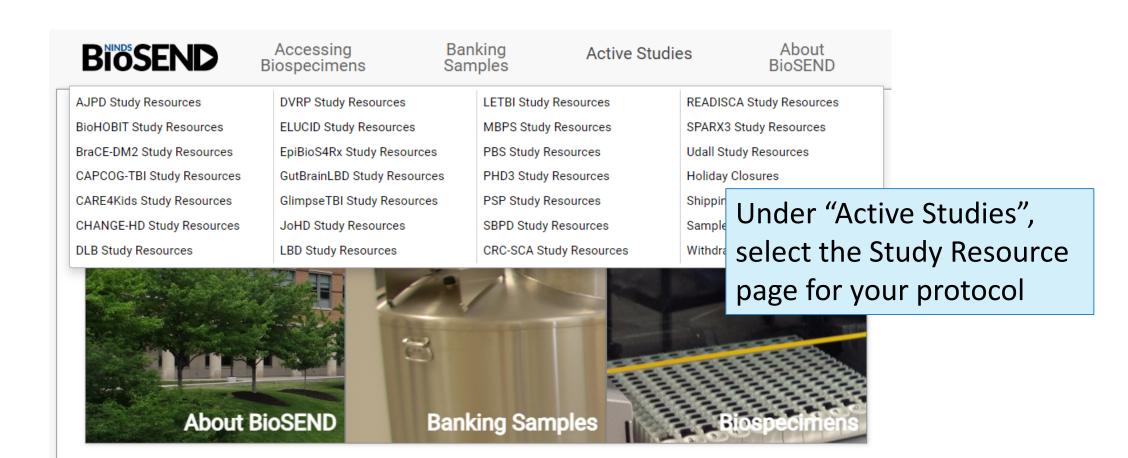
- Gloves
- Alcohol wipes
- Butterfly needles
- Tourniquet
- Gauze pads
- Bandages
- Microcentrifuge tube rack
- Sharps bin and lid

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

Collection Protocol

Collection Tube	Drawn At	Specimen Type	Aliquot Volume	Total Number of Aliquots	Cryovial Cap Color	Shipping Temperature
2 EDTA (glass) Blood	Visit 1	Plasma	1.5ml	6	Purple	Frozen
Collection Tubes, 10ml	Visit 1	Buffy Coat	~750ul	2	Clear	Frozen

Kit Ordering – Biosend.org



Kit Ordering

BIOSEND

Accessing Biospecimens

Banking Samples

Active Studies

About BioSEND

Direct link to ordering system :

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

On the Study Resources Page, follow Kit Request Module link Epilepsy of Late-onset Unknown etiology as a risk factor for Cognitive Impairment and Dementia (ELUCID) Study Page

Welcome ELUCID Study staff, coordinators, and Pls. This section encompasses study specific tools and resources for your reference. If you have any questions, please contact biosend@iu.edu.

Specimen Table

Cohort	Population	Plasma	Genomic DNA
ELUCID	Individuals with Epilepsy	✓	√

Study Resources

Kit Request Module

ELUCID Manual of Procedures

ELUCID Training Slides

Downloads

ELUCID Manual of Procedures
ELUCID Training Slides

Additional Resources

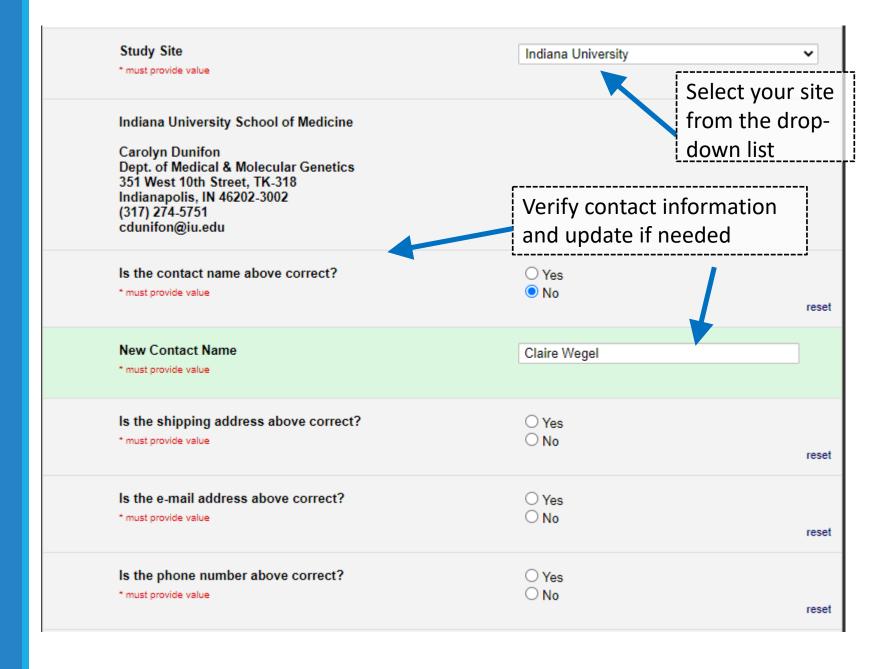
Online Sample Form

Contact Us

biosend@iu.edu 317-278-0594

Confirm/Update Shipping Information

Select your Study Site from the drop down box to populate the most current information we have for your site. Please confirm or update your site's information as needed.



Kit Ordering – Kit Options

Selecting a kit option will populate contents

Kit Type

Please allow two weeks for shipment

* must provide value

✓	Blood Collection	Kit
П	Shipping Kit	

■ Extra Supplies

Please specify in comments if you need kits before the standard two week shipment time.

Each Blood Collection Kit contains:

- 2 EDTA tube, 10ml (glass)
- 6 Cryovial (Sarstedt®) with purple cap, 2ml
- 2 Cryovial (Sarstedt®) with clear cap, 2ml
- 2 Disposable pipette, 3ml
- 2 Resealable tube pouch
- 1 Cryobox, 25 slot
- 1 Specimen/Case label set

Kit Ordering – Blood Collection Kit

Kit Type

Please allow two weeks for shipment

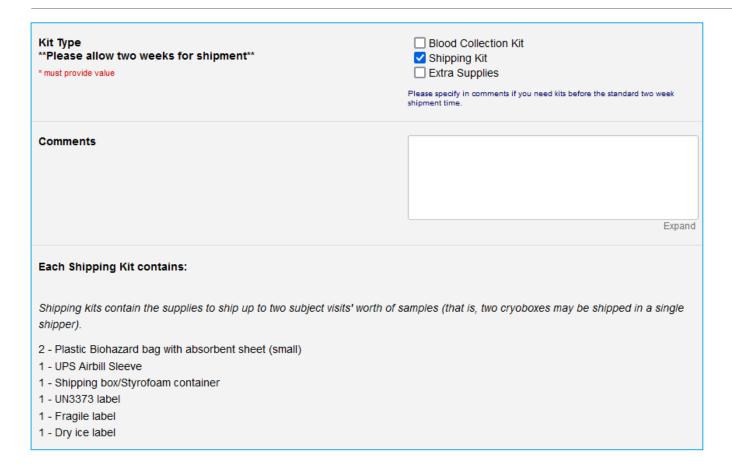
* must provide value

Shipping Kit Extra Supplies Please specify in comments if you need kits before the standard two week shipment time.

Blood Collection Kit

Standard collection kit for plasma and buffy coat. Contains supplies for one subject-visit.

Shipping Kits



- Shipping Kits are ordered independently of Blood Kits
- A single Shipping Kit may be used to send samples for 1-2 cryoboxes

Extra Supplies

This option allows you to order individual kit components. For ex, if you have a kit with blood tubes that have expired, you may order new collection tubes to replace them.

Kit Type **Please allow two weeks for shipment** * must provide value	□ Blood Collection Kit□ Shipping Kit☑ Extra Supplies	
	Please specify in comments if you need kits before the standard shipment time.	two week
Individual tube bubble pouch	O 2 O 4	
	O 4	reset
Cryobox	02	
	O 4	reset
Cryovial (Sarstedt®) with purple cap, 2ml	O 10	
	○ 20	reset
Cryovial (Sarstedt®) with clear cap, 2ml	O 10	
	○ 20	reset
Air waybill envelope	O 2	
	O 4	reset
	Plastic envelope to affix air waybill to package	
Shipping Container for Dry Ice Shipments	O 2 O 4	
	O 4	reset
Biohazard bag with absorbent sheet	02	
	O 4	reset

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.
 We cannot guarantee urgent
 requests, but will do our best
 to accommodate.

NINDS Biosend ELUCID Kit Request System

Study Site * must provide value	Beth Israel Deaconess Medical Center 🔻
Is the contact name above correct? * must provide value	○ Yes ○ No reset
Is the shipping address above correct?	○ Yes ○ No
non provide vide	reset
Is the e-mail address above correct?	○ Yes ○ No
most provide value	reset
Is the phone number above correct? * must provide value	○ Yes ○ No
man provide vinde	O No reset
Kit Type **Please allow two weeks for shipment**	☐ Blood Collection Kit ☐ Shipping Kit
* must provide value	☐ Extra Supplies
	Please specify in comments if you need kits before the standard two week shipment time.
Comments	
	Expand
Submit	

Sample Labelling

Labels are provided by Indiana University for BioSEND samples only

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



Kit Labels

0005482315 BioSEND

Kit: 302326

PLASMA

Specimen Labels

Sample Labelling

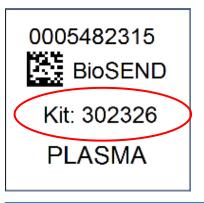
Labels are provided by Indiana University for BioSEND samples only

 Any kit number can be used for any subject or visit—which is why it is very important to document which kit number was used for which subject and visit

Each Blood Collection Kit will have a unique "Kit Number" used to track participant samples and provide quality assurance



Kit Labels



Specimen Labels

Sample Labelling – Specimen Labels

0005482315



BioSEND

Kit: 302326

PLASMA

Unique Barcode







Sample Labelling – Kit Labels

Kit labels are placed:

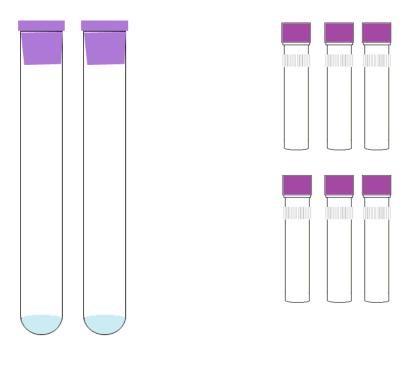
- On the biohazard bags
- On the lid of frozen shippers





Sample Collection and Processing

Supplies provided for the collection of plasma and buffy coat



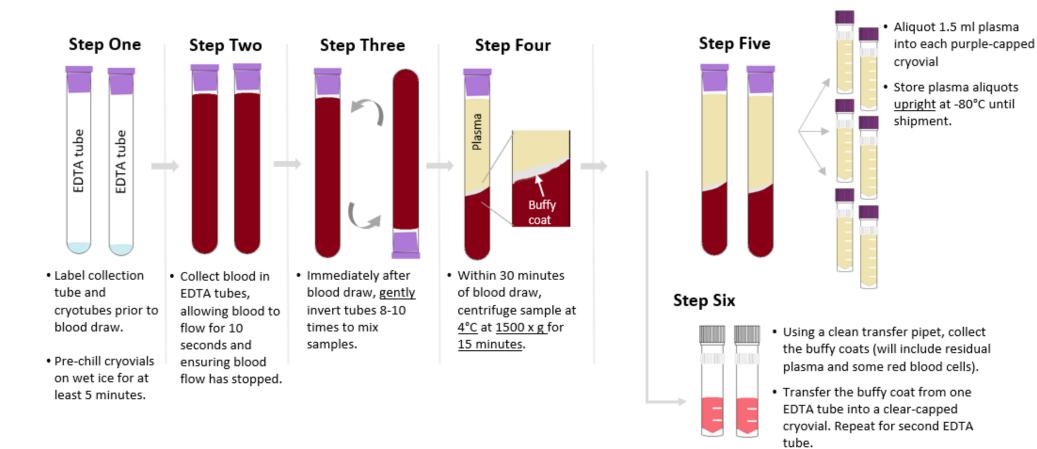
2 x 10ml EDTA (glass) collection tubes

6 x 2ml Cryovials (purple-capped) for plasma aliquots

2 x 2ml Cryovials (clear-capped) for buffy coat aliquots

Sample Collection and Processing: Plasma & Buffy Coat

 Store plasma and buffy coat aliquots upright at -80°C until shipment.



Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- All ELUCID samples ship frozen
- Ship frozen samples on dry ice
- Frozen samples should be shipped Monday through Wednesday only



Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- Fill shippers with a minimum of 10lbs of dry ice
- Place the cryobox in a biohazard bag
- Place layer of dry ice in between biohazard bags
- Do not pack shipment until the day of pickup

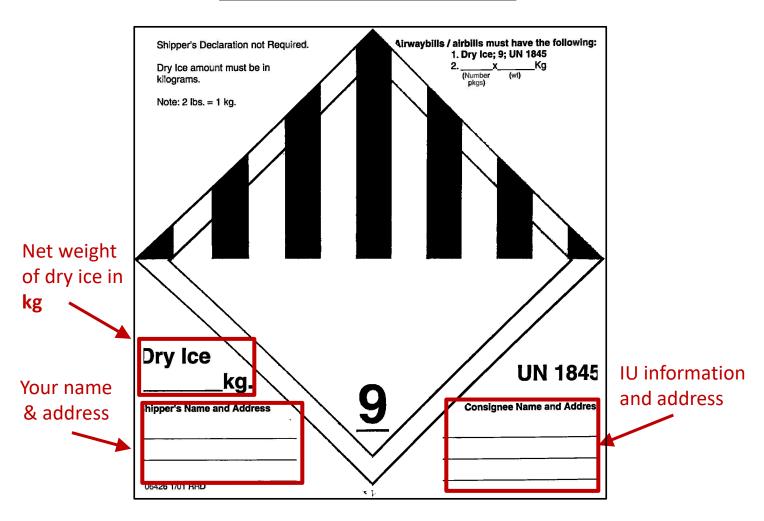




Shipping Samples

Labeling frozen shippers

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



Shipping Samples

UPS resources available on BioSEND website on the "Shipping Information" page



Banking Samples

About BioSEND

Shipping Information Page

Links on this page to:

- Generate airwaybills & schedule pickups
- 2. View printed guide on how to use ShipExec™
- 3. Request user account and update site address in system
- View video tutorial for using UPS ShipExec™

UPS Shipping Resources

To generate air waybills and schedule UPS pickups for shipments to BioSEND, please visit the UPS ShipExec™ 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.

Navigating UPS ShipExec™











Shipping Samples – UPS ShipExec™

If you will be assisting in shipping samples, please request a user account and familiarize yourself with the system well in advance of your first sample shipment

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

Sample Collection and Processing Form

Direct Link:

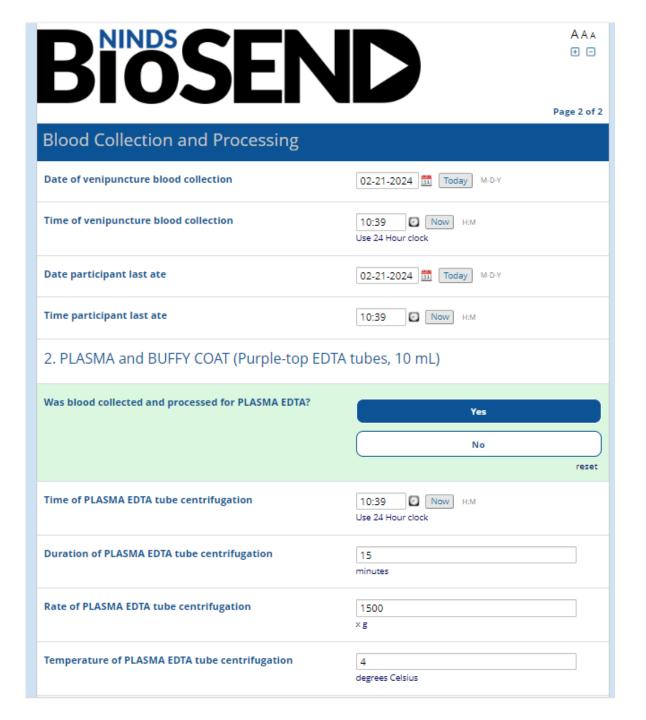
https://kits.iu.edu/biosend/ElucidSampleForm

First page captures basic subject and visit information



Sample Collection and Processing Form

Second page captures processing information



Page 1

Sample Collection and Processing Form

PDF form of responses will be emailed to you. Print a copy of the Frozen Shipping Manifest and include with shipment.

ELUCID Frozen Shipping Manifest

Please verify/update the information below. When you click the "Submit" button below, a PDF copy of the Frozen Shipping Manifest will be emailed to you for Subject [subj_id].

Please print a copy of that document and include it in the Kit #[kit_num] shipping container.

Study	○ ELUCID
Study Site:	 Beth Israel Deaconess Medical Center (BIDMC) Brigham and Women's Hospital (BWH) Icahn School of Medicine at Mount Sinai (ISMMS) Johns Hopkins Medical Institute (JHMI) Massachusetts General Hospital (MGH) University of Alabama at Birmingham (UAB) University of Texas Southwestern (UTSW)
Clinical ID:	
Visit:	○ V1
IU Kit Number:	
Date of blood collection:	
PLASMA EDTA	
Number of PLASMA EDTA aliquots shipped:	
Number of BUFFY COAT aliquots shipped:	
Shipping Information - Please complete.	

Non-Conformance

Most common non-conformance issues:

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



Non-Conformance

- BioSEND will notify sites directly of any issues upon receipt
- If you are experiencing issues, please reach out to us for help! It is much easier to prevent an issue before sample collection & shipment than trying to fix it after the fact

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
June 19	Juneteenth (observed)
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.

Contacts

Indiana University

General Questions/Shipment Notifications:

biosend@iu.edu