BIOSEND

Clinical Research Consortium for SCA (CRC-SCA)

BIOSPECIMEN COLLECTION & PROCESSING

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

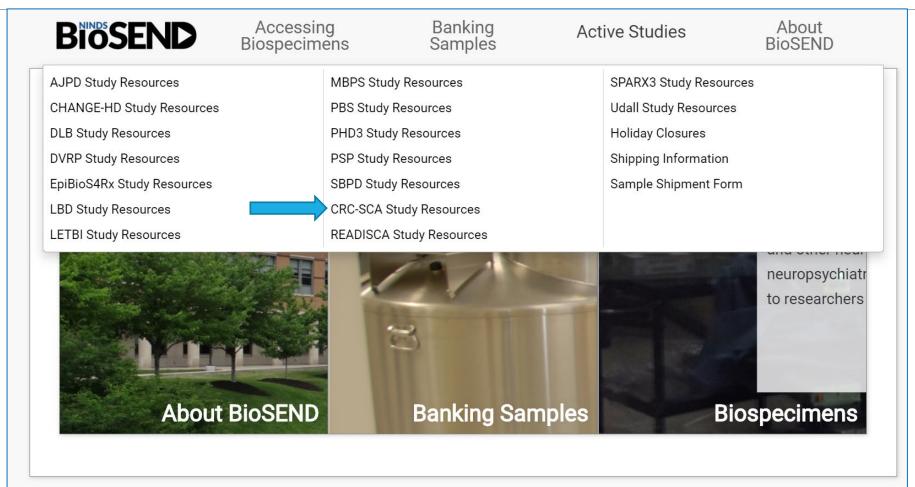
- Crushed ice
- Microcentrifuge tube rack
- Calibrated pipettes and pipette tips
- Centrifuge capable of maintaining 4°C
- -80°C Freezer
- Dry ice



Collection Protocol

Sample Type & Volume	All Visits
Plasma aliquots, 1ml	6
Serum aliquots, 1ml	6
Buffy Coat	2
Whole Blood, 3ml	2
CSF aliquots, 1ml	10

Kit Ordering – Biosend.org



Kit Ordering

Direct link to ordering system:

http://kits.iu.edu/biosend/crc-sca/



Accessing Biospecimens

Banking Samples

Active Studies

About BioSEND

Clinical Research Consortium for SCA (CRC-SCA) Study Page



Welcome CRC-SCA 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	Plasma	Genomic DNA	Serum	CSF
MBPS	Participants with a diagnosis of SCA 1, 2, 3, 6, or 7	√	√	√	√

Study Resources

Kit Request Module

Please follow the below link to access the CRC-SCA 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.

Kit Request System

Downloads

Sample Shipment Form (pdf)
Manual of Procedures
New Coordinator Training
Slides

Additional Resources

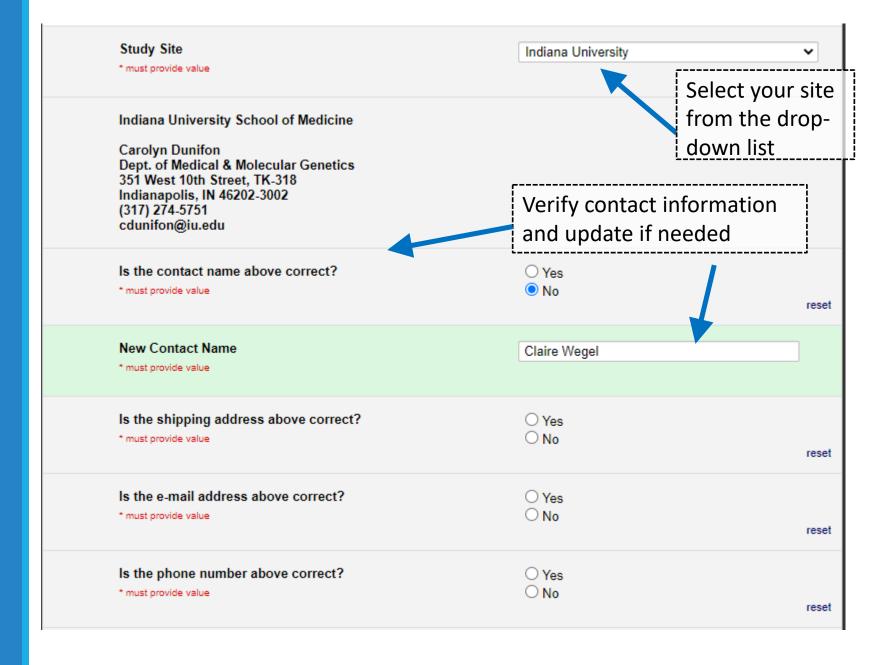
Online Sample Form Kit Request System

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 for that kit

Kit Type **Please allow two weeks for shipment** * must provide value	✓ Blood Collection Kit ☐ CSF Kit ☐ Supplemental Kit ☐ Extra Supplies
	Please specify in comments if you need kits before the standard two week shipment time.

Blood Collection Kit Contents:

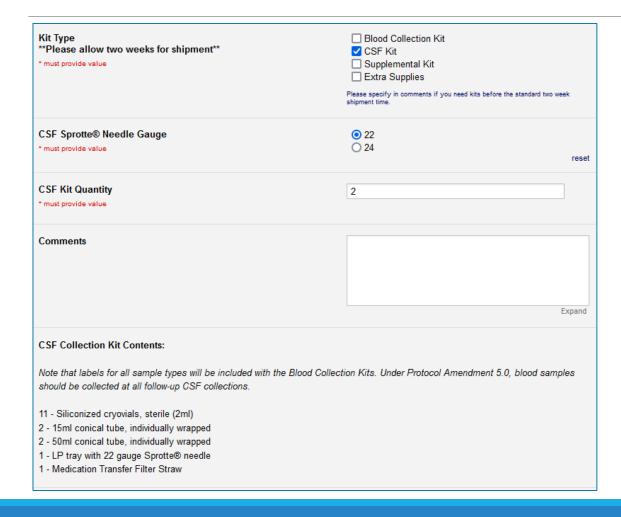
- 2 EDTA (Lavender) tube, glass (10 ml)
- 2 Serum (Red) tube, glass (10ml)
- 2 EDTA (Purple) tube, plastic (3ml)
- 15- Siliconized cryovial (2ml)
- 2 Disposable transfer pipette (3ml)
- 1 25-Slot Cryobox
- 1 Warning label packet (incl. dry ice label)
- 1 Airway bill envelope
- 1 Shipping container for dry ice shipments
- 2 Biohazard bag with absorbent sheet
- 6 Individual bubble sleeves for tube
- 30 Cryohold specimen/case labels

Kit Ordering – Blood Kits



Kits are not specific to a subject or time point. After collection, sites will indicate the subject and time point to which BioSEND should link the samples.

CSF Kits



- CSF collection kits are ordered independently of blood kits
- CSF labels will be included with all blood kits, as blood should be collected any time CSF is collected

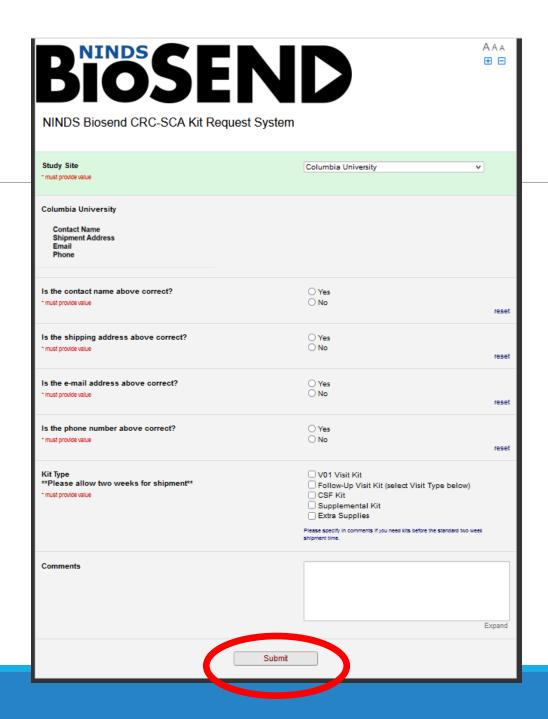
Extra Supplies

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	 V01 Visit Kit Follow-Up Visit Kit (select Visit Type below) CSF Kit Supplemental Kit ✓ Extra Supplies Please specify in comments if you need kits before the standard two week shipment time.
Individual Tube Bubble Pouch	O 2 O 4
25-Slot Cryobox	O 2 O 4
Siliconized Cryovial (2 ml)	○ 10 ○ 20
Air waybill envelope	O 2 O 4 Plastic envelope to affix air waybill to package
Lumbar Puncture Trays with Lidocaine, 24g	O 2 O 4
Lumbar Puncture Trays with Lidocaine, 22g	○ 2 ○ 4 reset
Medication Transfer Filter Straws (for LP)	O 2 O 4
15ml conical tube, individually wrapped	O 2 O 4

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.



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

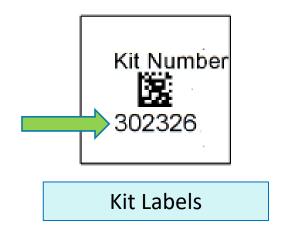
PLASMA

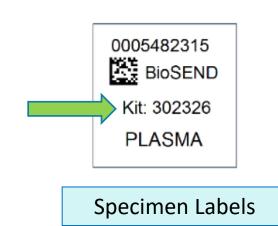
Specimen Labels

Sample Labelling – Kit Number

Kit Number

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





Sample Labelling – Kit Labels



Kit labels are placed:

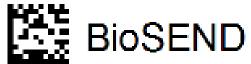
- On the biohazard bags
- On the lid of frozen shippers





Sample Labelling – Specimen Labels

0005482315



Kit: 302326

PLASMA

Unique Barcode

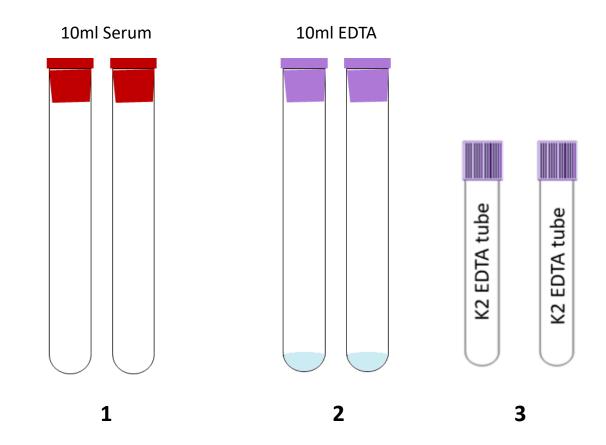


Kit Number

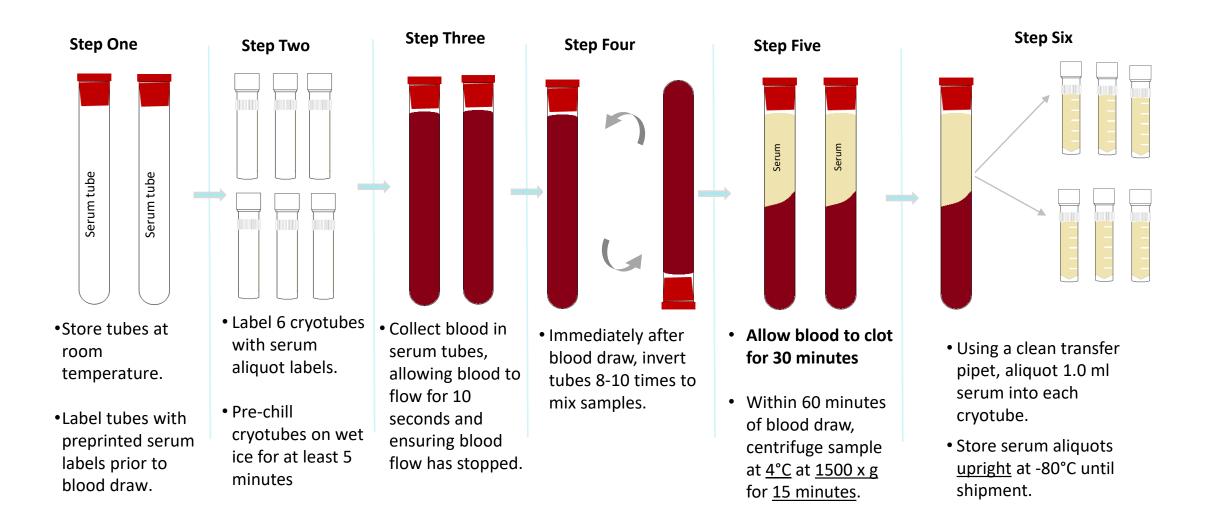
Sample Type

Sample Collection and Processing

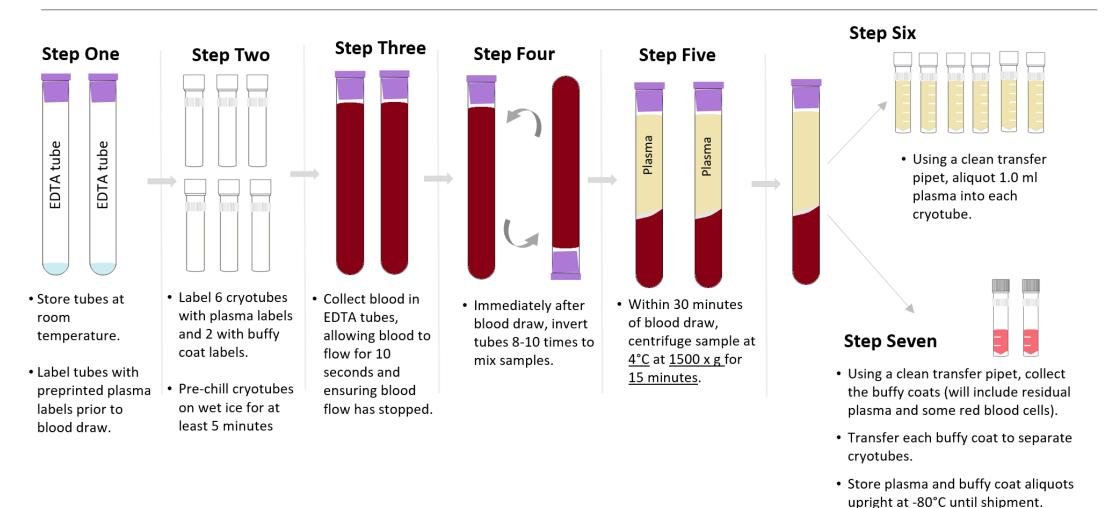
Blood Tube Draw Order



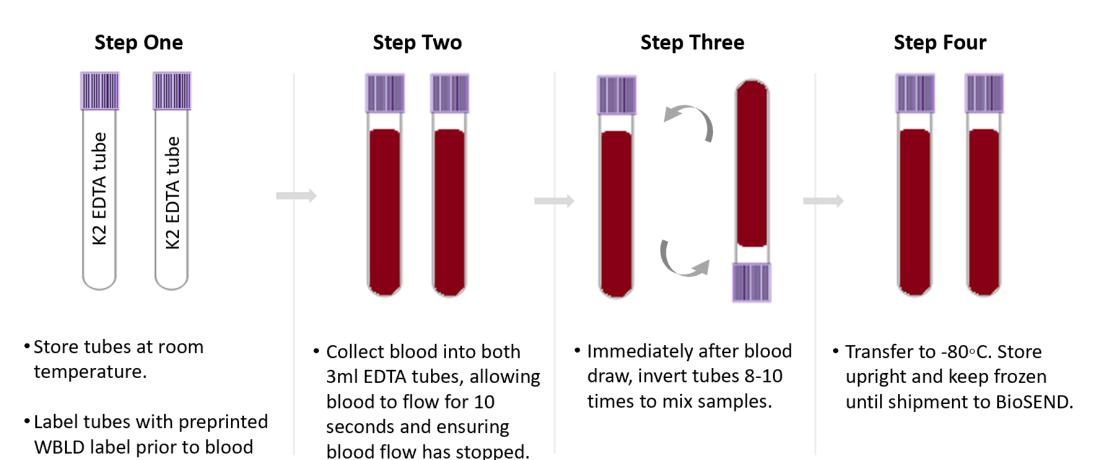
Sample Collection and Processing: Serum



Sample Collection and Processing: Plasma & Buffy Coat

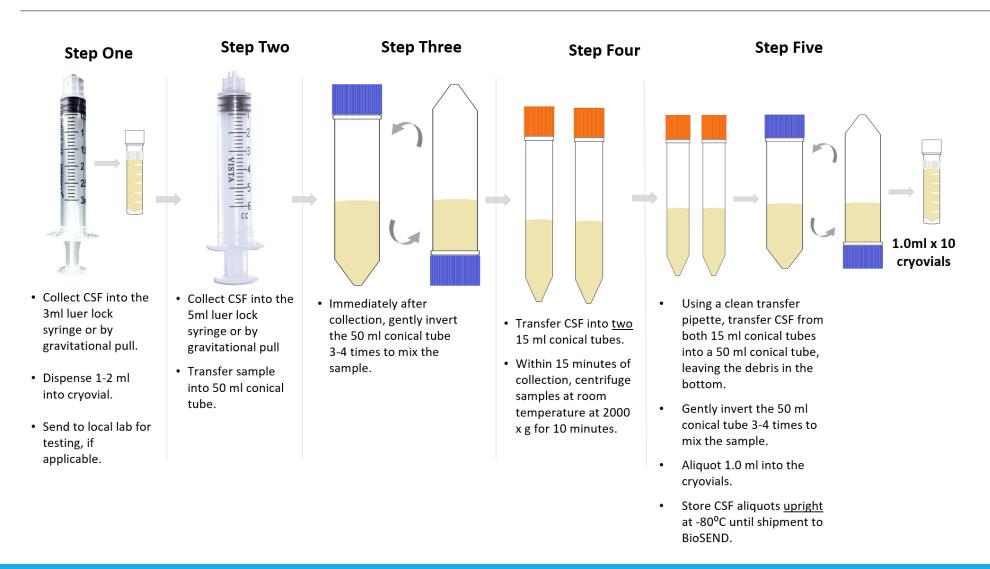


Sample Collection and Processing: Whole Blood



draw.

Sample Collection and Processing: CSF



Shipping Samples: Frozen

Packing and Shipping Frozen Samples

- Please ship samples as they are collected (within two weeks of collection)
- All CRC-SCA samples ship frozen 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 cryobox and whole blood in separate biohazard bags
- Place layer of dry ice in between biohazard bags
- Do not pack shipment until the day of pickup

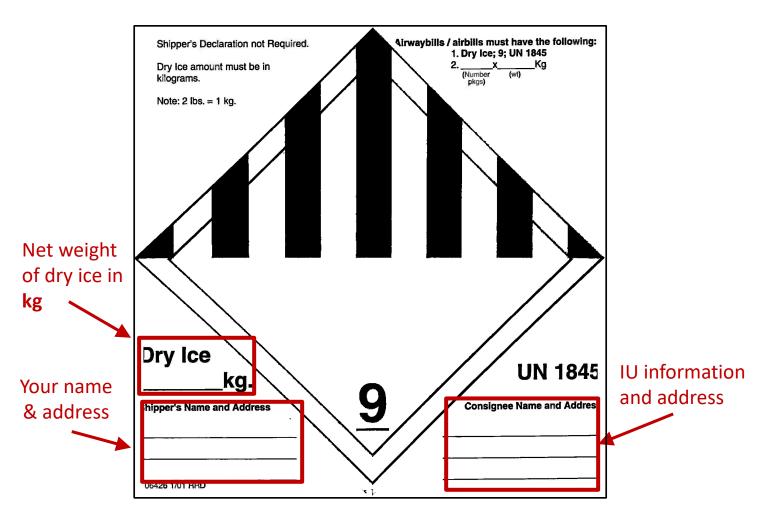




Shipping Samples

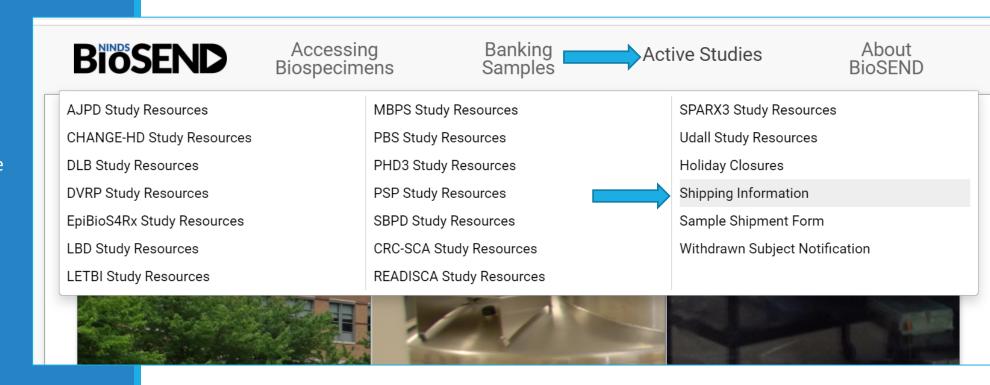
Labeling frozen shippers

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



Shipping Information Page

Links on this page to:

- Generate airwaybills & schedule pickups
- 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

- 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



BILLING: P/P
DESC: Biological Specimens
RETURN SERVICE

Reference No.1: 4087277

XOL 20.03.09 NV45 83.0A 12/2019



Shipping Samples: Frozen

Please notify BioSEND ahead of shipment

- Please complete the Sample Record and Notification Form in REDCap ahead of shipment (can be competed day of shipment).
 - > A completed copy of this form should be included in the sample shipper
- If you are having unable to use REDCap, please complete Sample Form by hand and notify BioSEND directly of shipment at biosend@iu.edu

Sample Collection and Processing Form

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

Form captures site contact info, basic subject and visit information, and sample manifest

BIOSEND

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AAA



CRC-SCA Sample Record and Shipment Notification Form

Please verify/update the information below. When you click the "Submit" button below, a PDF copy of the Sample Record and Shipment Notification Form will be emailed to you.

Please print a copy of that document and include it in the shipping container.

Study Site:	
Email address of staff member completing this form	
Note: A copy of the completed sample form will be sent to this address.	
Local ID:	Formatted like IU-01-001
IU Kit Number:	6 digit number on BioSEND labels
Sex (used for DNA quality control)	~
Visit:	•

Sample Collection and Processing Form

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

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

Page 1

CRC-SCA Sample Record and Shipment Notification Form

Please verify/update the information below. When you click the "Submit" button below, a PDF copy of the Sample Record and Shipment Notification Form will be emailed to you.

Please print a copy of that document and include it in the shipping container.

University of Texas Southwestern University of Washington Email address of staff member completing this form Note: A copy of the completed sample form will be sent to this address. Local ID: (Formatted like IU-01-001) IU Kit Number: (6 digit number on BioSEND labels) Sex (used for DNA quality control) Pemale Male Other - provide details Other - provide details	Study Site:	Columbia University Emory University Houston Methodist Hospital Johns Hopkins University Massachusetts General Hospital (Harvard Medica School) Northwestern University University California-Los Angeles University California-San Francisco University of Chicago University of Florida University of Michigan University of Minnesota University of Montreal Hospital (CRCHUM) University of Pennsylvania University of South Florida
Note: A copy of the completed sample form will be sent to this address. Local ID: (Formatted like IU-01-001) IU Kit Number: (6 digit number on BioSEND labels) Sex (used for DNA quality control) Pemale Male Other - provide details		 University of Texas Southwestern University of Washington
to this address. Local ID: (Formatted like IU-01-001) IU Kit Number: (6 digit number on BioSEND labels) Sex (used for DNA quality control) Pemale Male Other - provide details	Email address of staff member completing this form	
IU Kit Number: (6 digit number on BioSEND labels) Sex (used for DNA quality control) Female Male Other - provide details		
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(6 digit number on BioSEND labels) Sex (used for DNA quality control) Female Male Other - provide details		(Formatted like IU-01-001)
Sex (used for DNA quality control) Female Male Other - provide details	IU Kit Number:	
○ Male ○ Other - provide details		(6 digit number on BioSEND labels)
Other - provide details	Sex (used for DNA quality control)	O Male
	Other - provide details	

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.

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
- Non-conformance is reported on a monthly basis to NINDS and NAF
- Continued non-conformance may result in required re-training and notification to site PI
- 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

Contacts

Indiana University

General Questions/Shipment Notifications:

biosend@iu.edu