

Serosurveillance to Assess Measles and Rubella Prevalence

Country X, 20YY-YY

Standard Operating Procedures

Specimen Collection for venous and dried blood spots using HemaSpot HF device

Version: October 20XX

1. Purpose/Background

- 1.1. The purpose of this document is to describe how to collect a blood sample from a finger prick in the form of liquid blood or dried blood spot (DBS) or venipuncture (where applicable) in the field, packing and transport of samples in field to site lab. Blood collection protocol varies by site, please check with your supervisor the blood collection options for your site.

2. Scope/Applicability

- 2.1. This SOP is intended for all individuals who will collect blood as part of study procedures.

3. Roles and responsibilities

- 3.1. Survey Laboratory Technicians for the serosurvey are responsible for blood collection.

4. Prerequisites / Supplies Needed

- 4.1. Ensure you have all the material that you need BEFORE beginning (see Appendix 4 for detailed supplies lists):

- Gloves – multiple sizes
- Pre-printed labels for microtainer / vacutainer tubes, DBS cards, consent forms and logs (if needed)
- Extra blank labels for microtainer/ vacutainer tubes, DBS cards, consent forms and logs (if needed)
- Alcohol swabs/ wipes
- Cotton swabs
- Thin permanent marker for labeling (must be waterproof and not smear)
- Bin for hazardous waste (red bag)
- Bin for non-hazardous waste (black bag)
- Hazardous waste bag (red)
- Non-hazardous waste bag (black)
- Laboratory coat (site to decide if this will be useful for technician for credibility in community)

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Appendix 4: Blood Collection and Processing Supplies list

Supplies list for 1500 participants in 1 site

#	Material	Quantity for 2 teams
Field (Specimen Collection)		
1	DispoVan 5ml syringe with needles 23/24G	1000
2	DispoVan 2ml syringe with needles 23/24G	500
3	Butterfly scalp vein with 23-gauge needles	200
4	Needle Destruction unit	2
5	BD vacutainer SST Tubes (Gel, yellow top vacutainer tubes) (Product number: 367984)	1500
6	BD Microtainer SST (500ul Gel, yellow top) tubes	100
7	Hard shell Vaccine Carrier (Standard size)	4
8	Vacutainer/ gel tube rack (should hold up to 40 tubes)	2
9	Ice/ gel packs	16 (4 in each vaccine carrier plus extras)
10	500ml Beakers (for transportation of tubes from field to site and overnight storage in fridge)	4
11	Cotton rolls (for packing samples during transport)	10 rolls
12	Sharps Container	35- 40 (if single use)
13	Band-aid	1700
14	Cold Box (small-medium size: to be used for storing extra ice packs)	2
15	Alcohol Wipes	1700
16	Tourniquets	2
17	Gloves (<i>check with site on preferred sizes</i>)	2500
18	Hand sanitizer (Sterilium 50 ml)	4
19	Thin waterproof markers	5
20	Bio Hazard Bag (Red) (thicker, higher quality)	100
21	Garbage bags (black) (thicker, higher quality)	100
22	Gauge Swab	1700
23	Cotton Swab Sterile	1700
24	Rubber bands	450
25	Cello tape	2 rolls

26	Scissor	2
27	BD retractable lancet (Product number: 366594)	800
28	HemaSpot HF Device	500
29	Dessicant (size of a postage stamp)	600
30	Small Ziploc bags (1 DBS device should fit in this bag)	500
31	Medium Ziploc bags (Glad Freezer Bags 30 units (gallon size))	2
32	Tote bags (to carry supplies to field) (1/ team)	2
33	Laboratory coat (<i>check with site on preferred sizes</i>)	2
34	Portable centrifuge	2
Site Lab (Specimen Processing)		
35	Pipette 1000ul	2
36	Pipette 200ul	2
37	Filter tips 200ul	10 boxes
38	Filter tips 1000ul	10 boxes
39	Sterile Screw cap vial 0.5ml	1250
40	Sterile Screw cap vial 1.8ml	1250
41	Vacutainer/ gel tube rack (should hold upto 40 tubes)	2
42	Cryovial tube rack	2
43	Cryoboxes (capacity 9x9) for smaller screw cap vial 0.5mL	15
44	Cryoboxes (capacity 9x9) for larger screw cap vial 1.8 mL	15
45	Large Ziploc bags (to carry samples from site to central lab)	100
46	Large Tupperware (to carry from site to central lab)	4
47	500ml Beaker (to be used in lab)	2
48	Laboratory coat (<i>check with site on preferred sizes</i>)	1
49	Scissor	1

Daily blood collection supply list for fieldwork (per team per cluster) (to enroll 39 individuals per cluster)

Material	Quantity (per team per cluster)
Preprinted cryolabels	5 labels/participant in each age group
Blank labels (back up)	1 sheet
Gloves	1 box
Thin permanent marker	1
Bag/ bin for soiled plastics waste (red bag)	2-3
Bag/ bin for nonhazardous waste (black bag)	1-2
Hard shell Vaccine Carrier (Standard size)	2
Cold box (small-medium size)	1 (if needed)
Ice packs in vaccine carrier	4 (add additional if needed)
500ml beaker	2
Tissue paper	1 roll
Scissors	1
Cello Tape	1 roll
Laboratory coat (for each lab technician/ phlebotomist)	1
Tote bag to carry supplies (small bag)	1
Portable centrifuge	1
Sterile gauze pieces or cotton	90
Band aids	90
Rubber bands	5
Cotton roll	1 roll
Hand sanitizer (Sterilium 50 ml)	4
Thin waterproof markers	2
Venepuncture	
Tourniquet	2
DispoVan 5ml syringe with needles 23/24G	50
DispoVan 2ml syringe with needles 23/24G	20

BD vacutainer SST Tubes (Gel, yellow top vacutainer tubes) (Product number: 367984)	50
Vacutainer rack/ holder	1
BD Microtainer SST (500ul Gel, yellow top) tubes	10
Needle cutter	1
Sharps container	1
Alcohol swabs/ wipes	1 pack
Cotton swabs	2 packs
DBS	
DBS device	20-30
Desiccants (Note: should be stored in a small Tupperware or Ziploc bag to prevent moisture)	20
Lancets	20-30
Small Ziploc (to keep individual HF device)	50
Medium Ziploc (cluster specific bag)	2
Rubber bands	20