

CDC Specimen-Collection Protocol for a Chemical-Exposure Event

For detailed instructions see CDC's *Shipping Instructions for Specimens Collected from People Who May Have Been Exposed to Chemical Agents*.

Collect blood and urine samples for each person involved in the chemical-exposure event.

Note: For children, collect only urine samples unless otherwise directed by CDC.

Blood-Sample Collection

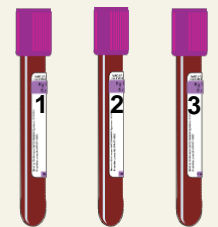
For each person, collect blood in glass or plastic tubes in the following order: 1st: collect specimens in three (3) EDTA (purple-top) 4 mL or larger plastic or glass tubes; 2nd: collect another specimen in one (1) gray- or green-top tube. Collect the specimens by following the steps below:

- 1** Collect a minimum of 12 mL of blood in three (3) 4 mL or larger glass or plastic tubes. If using 3 mL tubes, use four tubes.



Do not use gel separators.

- 2** Mix contents of tubes by inverting them 5 or 6 times.



Tube #1 Tube #2 Tube #3

Label tubes in order of collection. #1, #2, #3

- 3** Place bar-coded labels on each tube, so that when the tubes are upright, the barcode looks like a ladder.



Tube #1 Tube #2 Tube #3

Store samples at 1°C to 10°C.
Do not freeze.

- 4** After collecting samples in the purple-top tubes, collect one (1) sample in a gray- or green-top tube (gray-top tube shown). Allow the tube to fill to its stated capacity.



Do not use gel separators.

- 5** Mix contents of the tube by inverting it 5 or 6 times.



- 6** Place bar-coded labels on the tube, so that when the tube is upright, the barcode looks like a ladder.



Store samples at 1°C to 10°C.
Do not freeze.

Urine-Sample Collection

For each person, collect 40 mL- 60 mL of urine in a screw-cap urine cup.



Label the urine cup with the appropriate bar-coded label as shown. Indicate on the cup how the sample was collected if the method was other than "clean catch" (i.e., catheterization).

Freeze samples (optimally at -70°C).



Place bar-coded labels on all cups so that when the cup is upright, the barcode looks like a ladder.

Instructions for Shipping BLOOD Specimens to the Level 1 LRN-C Laboratory after a Chemical Exposure Event

Guidance in accordance with International Air Transport Association (IATA) Packing Instruction 650 – Biological substance category B

For detailed instructions, see CDC's Shipping Instructions for Specimens Collected from People Who May Have Been Exposed to Chemical-Terrorism Agents.

1



Place the purple and green/gray top tubes into gridded type box. Box should be lined with absorbent pad.

2



Seal gridded box with one continuous strip of evidence tape. The person sealing the box must initial half on the tape and half on the box.

3



Wrap gridded box in absorbent pad and tape to seal. Insert box into Saf-T-Pak clear inner, leakproof 95 kPa polybag (or equivalent).

4



Place sealed Saf-T-Pak clear inner, leakproof 95 kPa polybag into a white Tyvek® outer envelope (or equivalent).

5



Seal the opening of this envelope with a continuous piece of evidence tape. Write initials half on the evidence tape and half on the envelope.

6



Use a polystyrene-foam insulated corrugated fiberboard shipper to ship specimens. Place absorbent material in the bottom of the shipper.

7



Place refrigerator packs in a single layer on top of the absorbent material.

8



Place the packaged specimens in the shipper. Use extra absorbent material to minimize shifting while box is in transit. Place additional refrigerator packs on top of specimens.

9



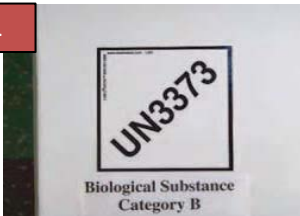
Place copies of the specimen submission/ chain-of-custody forms in a sealable plastic bag and put on top of the specimen boxes inside the shipper. **Keep originals for your files.** Place lid on the shipper.

10



Secure the shipper lid with filamentous shipping tape. Place your return address in the upper left-hand corner of the shipper top and put the LRN-C receiving address in the center. (Use address below)

11



Add the UN 3373 label with the words "Biological Substance Category B" on the front of the shipper.

12



Send shipment via FedEx or Local Courier to the attention of the CT Coordinator at :
LRN-C Level 1 Lab, DWRLB, G-164,
CDPH, 850 Marina Bay Parkway,
Richmond, CA 94804

**For questions concerning this process,
contact CT Coordinator at 510-412-1693 or 510-620-2911
LRN-C@cdph.ca.gov**

LRN-C Level 1 Laboratory,
Drinking Water and Radiation Laboratories Branch
G-164, California Department of Public Health
850 Marina Bay Parkway,
Richmond, CA 94804

Instructions for Shipping URINE Specimens to the Level 1 LRN-C Laboratory after a Chemical Exposure Event

Guidance in accordance with International Air Transport Association (IATA) Packing Instruction 650 – Biological substance category B

For detailed instructions, see CDC's *Shipping Instructions for Specimens Collected from People Who May Have Been Exposed to Chemical-Terrorism Agents*.

1



Use a gridded type box or individually wrapped cups. Place absorbent material in the bottom of the box.

2



Seal the gridded box with evidence tape. Write initials half on the tape and half on the packaging.

3



Wrap gridded box in absorbent pad and tape to seal. Seal gridded box inside the clear, leak-proof 95 kPa polybag (or equivalent).

4



Place the sealed inner leak-proof 95 kPa polybag inside a white Tyvek® outer envelope (or equivalent).

5



Seal the opening of this envelope with evidence tape. Write initials half on the evidence tape and half on the envelope.

6



Use a polystyrene-foam insulated corrugated fiberboard shipper to ship specimens. Place absorbent material in the bottom of the shipper.

7



Place dry ice in a single layer on top of the absorbent material. NOTE: Do not use large chunks or flakes of dry ice.

8



Place the packaged specimens in the shipper. Use extra absorbent material to minimize shifting while box is in transit. Place additional dry ice on top of specimens.

9



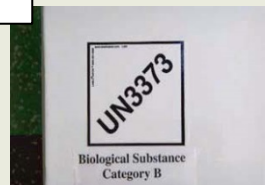
Place copies of the specimen submission/ chain-of-custody forms in a sealable plastic bag and put on top of the specimen boxes inside the shipper. Keep originals for your files. Place lid on the shipper.

10



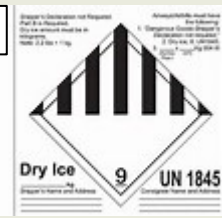
Secure the shipper lid with filamentous shipping tape. Leave vent for CO₂ to escape. Place return address in the upper left-hand corner of the shipper top and put the LRN-C receiving address in the center. (Use address below)

11



Add the UN 3373 label with the words "Biological Substance Category B" on the front of the shipper.

12



Place a Class 9/UN 1845 label on the front of the shipper. This label MUST indicate the weight of dry ice (in kg) in the shipper and the proper name (either dry ice or carbon dioxide solid) and the shipper and consignee addresses

13



Send shipment via FedEx or Local Courier to the attention of the CT Coordinator at :
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