

Laboratory Response Network for Chemical Threats

<http://emergency.cdc.gov/lrn/chemical.asp>

The Centers for Disease Control and Prevention funding supports over 60 U.S. states, territories, and metropolitan areas through the Public Health Emergency Preparedness cooperative agreement. More than 50 laboratories provide chemical threat emergency response capabilities for their local areas and/or the nation. These labs make up the chemical component of the Laboratory Response Network (LRN-C).

Chemical Warfare Agents: Classes

<http://emergency.cdc.gov/chemical/>

Biotoxins

Ricin (respiratory distress, fever, coughing)
Abrin, Strychnine

Blood

Hydrogen Cyanide (vertigo, tachycardia)
Carbon Monoxide, Hydrogen Sulfide

Industrial Chemicals

Metals (arsenic, cadmium, lead, mercury)
Volatile Organic Compounds

Nerve

Sarin (diarrhea, miosis, bradycardia)
Soman, Tabun, VX

Pulmonary

Phosgene (respiratory distress, choking)
Chlorine, Diphosgene

Vesicants

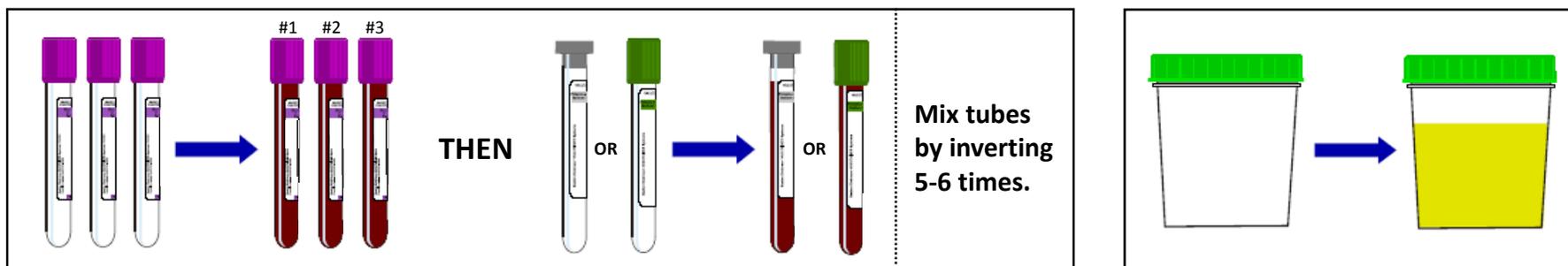
Sulfur Mustard (itching, yellowish blisters)
Nitrogen Mustard, Phosgene Oxime

Chemical Warfare Event: Blood and Urine Specimen Collection

<http://emergency.cdc.gov/labissues/pdf/shipping-samples.pdf>

BLOOD: Collect 4 mL blood tubes per patient in the following order: 3 purple-top (EDTA), then 1 gray- or green-top (fluoride/oxalate or heparin). Label purple tubes in order of collection: #1, #2, #3. If using 3 mL purple tubes, collect four tubes. For children and pediatric patients, collect urine only unless CDC directs otherwise. **STORE BLOOD SAMPLES AT 4°C. DO NOT FREEZE.**

URINE: In addition to blood tubes for each patient, collect at least 25 mL of urine in a screw cap urine cup. Indicate on the cup how the sample was collected if other than "free catch" (e.g. by catheterization). **FREEZE URINE SAMPLES (OPTIMALLY AT -70°C).**



If applicable, label each blood tube or urine cup with the appropriate barcode label. Barcode labels should be placed on tubes and cup so that when the samples stand upright the barcode looks like a ladder.

Along with the samples, submit two empty blood tubes of each type, and two empty urine cups, of the same lot number as the samples.

Instructions for Shipping Clinical Samples

In accordance with packaging instructions by International Air Transport Authority (IATA) 650 Biological Substance Category B

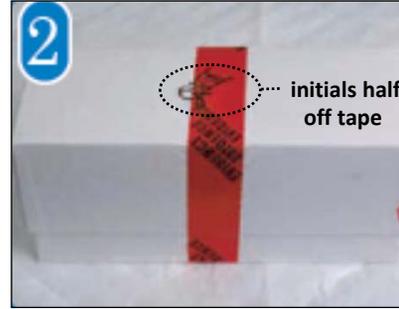
<http://www.bt.cdc.gov/labissues/pdf/chemspecimenshipping-blood.pdf>

<http://www.bt.cdc.gov/labissues/pdf/chemspecimenshipping-urine.pdf>

DO NOT SHIP BLOOD TUBES AND FROZEN URINE CUPS IN THE SAME PACKAGE.



samples in box with adsorbent pad



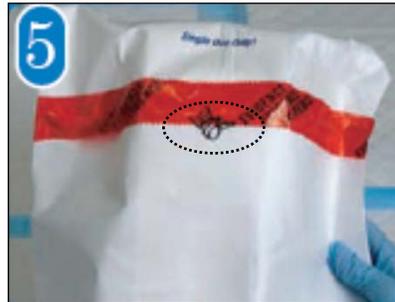
seal lid on with evidence tape; initial



wrap box in pad; tape; seal into bag



place in white envelope



seal with evidence tape; initial



adsorbent pad in shipper box



ice packs (blood) dry ice (urine)

line with coolant



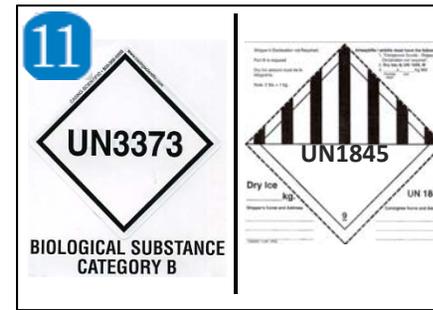
sample; cushioning; more coolant



shipping manifest sealed in bag



seal lid on; return address



UN3373 label (blood and urine)

Class 9/UN1845 label (dry ice only)

Centers for Disease Control and Prevention
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(770) 488-7579

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Attn: CT Laboratory Coordinator
2220 Old Penitentiary Rd
Boise, ID 83712
(208) 334-2235

FedEx to CDC or IBL