

SPECIMEN & MEDICAL PRODUCTS RESEALABLE ZIPPER & PACKAGING CUSTOM FLEXIBLES

800 Industrial Park Road Carbondale, Illinois 62901 USA Tel: 800-824-0817 Fax: 618-549-4408

Fax: 618-549-4408 www.com-pac.com

EBOLA & ENTEROVIRUS SOULTIONS

Com-Pac International has manufactured Laboratory specimen handling, storage and shipping products for over 25 years. Due to the recent Ebola and Enterovirus outbreaks, Com-Pac has added several new specimen handling products designed specifically around the recently provided guidance from the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) relating to packaging and shipping these viruses. We have attached the two documents from the CDC which provide this guidance.

Specifically, Ebola specimens must be shipped as an "Infectious Substance, Affecting Humans, Category A," and is assigned UN 2814. Further, the CDC has specified that specimens should be shipped either frozen or refrigerated at 2°C - 8°C.

Enterovirus specimens should be shipped as a "Biological Substance, Category B," and is assigned UN 3373. The CDC has specified that these specimens should be shipped frozen on dry ice.

The above Categories (either A or B) which have been assigned to these substances determines the packaging requirements for each type and is regulated by the Department of Transportation (DOT in the U.S. and the International Air Transport Association (IATA) internationally. You and your employer can be subject to fines and penalties if the packaging regulations are not followed.

All of Com-Pac's shippers designated for use with Category A and Category B specimens have been tested and certified to comply with the UN 6.2 Dangerous Goods Regulations, 49 CFR D.O.T. regulations for air and ground shipments and IATA Packaging Instructions 620 and 650. Each of our shippers comes complete with all required absorbents, labels and labeling instructions, and shipping declarations.

Com-Pac's new **INFECON® 6200** is comprised of a ½ liter UN certified vessel, bubble wrap, and a carton with the required UN markings to contain the vessel. This vessel will hold up to 6 standard blood tubes. The vessel in its carton is to be placed in the overpack cooler which is also provided, with refrigerated gel packs or dry ice if you are shipping Ebola, or dry ice if you are shipping Enterovirus.

The **INFECON® 6300** is identical to the 6200 except the UN certified vessel has a 1 liter capacity and will hold up to 20 standard blood tubes.

It is important to follow all required labeling instructions, but particular attention should be given to the following:

- When shipping Ebola (a Category A specimen), the Infectious Substance label must be affixed to the outside of the cooler, whether or not you are shipping on dry ice or with gel packs;
- If you are shipping Ebola on dry ice, you must additionally affix the dry ice label to the outside of the cooler;
- When shipping Enterovirus (a Category B specimen), you must not affix the Infectious Substance label to the cooler, But you must affix the dry ice label to the cooler.

It should also be noted on the attached Ebola Guidance Sheet that the CDC reminds healthcare workers that **29 CFR 1910.1030** "requires that specimens should be placed is a durable, leak-proof secondary container for transport in a facility." The typical bio-hazard bag is not guaranteed leak-proof. However, Com-Pac's line of **Bitran**® and **Infecon**® resealable specimen bags have been independently tested under regulations specifying the definition of "leak-proof" and comply with all such requirements.

On page 2 of the attached brochure, you will find information on each of these specimen bag lines, as well as the new **Bitran**[®] **Bubble Pouch Bags** which combine the leak-proof capability of our Bitran[®] Bags with a compartmented bubble pouch for safe and convenient handling of specimens within the facility. We have also provided several helpful links to websites which address regulations on specimen handling and shipping.

Remember that all of the components of our shippers may be purchased separately for refurbishment and re-use. We also specialize in custom bag sizes, printing, sequential barcoding and offer hundreds of other specimen handling and shipping products. All of our products are manufactured in Carbondale, Illinois USA.

Ebola & Enterovirus Shipping Solutions



The World Health Organization, CDC and DOT have determined the following:

"Ebola Virus Disease specimens MUST be shipped as <u>INFECTIOUS SUBSTANCE</u>, <u>AFFECTING HUMANS</u>, CATEGORY A (UN 2814)." Recommended shipping temperature: 2° C - 8° C.

"Enterovirus D68 (EV-D68) specimens may be shipped as <u>BIOLOGICAL SUBSTANCE</u>, <u>CATEGORY B</u> (UN 3373)."

Recommended shipping temperature: -70 C.

Combination Shippers Designed Specifically For Use With Ebola or Enterovirus (use refrigerated gel packs for Ebola and dry ice for Enterovirus)



INFECON® 6200 (1/2 Liter Vessel)

Combines INF-2000 with INF-6000 72 Hours @ -70°C with 22 lbs. Dry Ice 72 Hours @ 5°C with Gel Packs Cat. No. INF-6200



INFECON® 6300 (1 Liter Vessel)

Combines INF-3000 with INF-6000 72 Hours @ -70°C with 22 lbs. Dry Ice 72 Hours @ 5°C with Gel Packs Cat. No. INF-6300

Separate Shippers For Use With or Without Gel Packs or Dry Ice



INFECON® 2000 ½ Liter Vessel - Up To 6 Standard Tubes Cat. No. INF-2000



INFECON® 3000 1 Liter Vessel - Up To 20 Standard Tubes Cat. No. INF-3000



INFECON® 5000
Dry Ice or Gel Pack Shipper
1/2 Liter Vessel - 60 Hrs With 5.6 lbs. Dry Ice
Cat. No. INF-5000



INFECON® 5500
Dry Ice or Gel Pack Shipper
1 Liter Vessel - 100 Hrs. With 16 lbs. Dry Ice
Cat. No. INF-5500



INFECON® 6000
Overpack Cooler & Labels Only
76 Hours With 22 lbs. Dry Ice
Cat. No. INF-6000
(Cat. A when used with INF-2000 or INF-3000)



INFECON® DIAGNOSTIC MAILER 6 Compartment Bubble Pouch 9" x 12" Liquid-Tight Infecon Bag 250 mil Absorbent Cat. No. DIA-1000

Com-Pac Shippers - Compliance, Convenience, Cost Effectiveness

- ✓ Items Designated "For Category A and B Specimens" are UN 6.2 Certified, Meet 49 CFR D.O.T. Regulations for Air & Ground Shipments, and Meet ICAO/IATA Packing Instructions 620 (Cat. A) and 650 (Cat. B).
- ✓ Items Designated "For Category B Specimens Only" Meet ICAO/IATA Packing Instruction 650.
- ✓ Items Include All Accessories, Absorbents, Labels, Labeling Instructions and Shipping Declarations.
- ✓ Components Such As Boxes, Vessels, Labels and Absorbents May Be Purchased Separately for Refurbishment and Reuse.

Check-Out Our Other Specimen Transport and Storage Products



BITRAN® LEAKPROOF SPECIMEN BAGS

3 Mil PE with No Printing Leakproof Resealable Zipper Cat. No. Based on Size



INFECON® LEAKPROOF SPECIMEN BAGS

3 Mil PE with Document Pouch Leakproof Resealable Zipper Biohazard Logo Cat. No. Based on Size



INSPEX® TAMPER-EVIDENT ADHESIVE SPECIMEN BAGS

3 Mil PE with Biohazard Logo Cat. No. 8022-XP 6.5" x 12"



BITRAN® BUBBLE POUCH BAG

Liquid-Tight Bitran Zipper Bag With Document Pouch 6 Compartment Bubble Pouch Cat. No. DA-1718 7" X 8" Cat. No. DA-1912 9" X 12"



SAF-T-ZIP® SPECIMEN BAGS

6" X 9" 2.8 Mil PE Secondary Bag Document Pouch, Resealable Zipper & Biohazard Logo Cat. No. Based on Zipper Color



INSPEX® 95 kPa SPECIMEN BAG

6" X 9" Super-Tough Material Tamper-Evident Adhesive Closure Cat. No. XP-95-0609

Links to Helpful Websites on Specimen Packaging & Shipping

Interim Guidance for Specimen Collection, Transport, Testing, and Submission for Persons Under Investigation for Ebola Virus Disease:

Http://www.cdc.gov/vhf/ebola/hcp/interim-guidance-specimen-collection-submission-patients-suspected-infection-ebola.html Http://www.cdc.gov/vhf/ebola/pdf/ebola-lab-quidance.pdf

Diagram of a "Category A" Infectious Substance Shipper and "Category B" Biological Substance Shipper:

<u>Category A Shipper</u>

<u>Category B Shipper</u>

CDC Guidance for Collection, Storage and Shipment of Enterovirus:

Http://www.cdc.gov/non-polio-enterovirus/lab-testing/specimen-collection.html

World Health Organization Guidance on Regulations for Transport of Infectious Substances 2013-2014:

Http://www.who.int/ihr/publications/who hse ihr 2012.12/en/

International Air Trransport Assn. (IATA) Dangerous Goods Regulations for Infectious Substances:

Https://www.iata.org/whatwedo/cargo/dgr/Documents/DGR52_InfectiousSubstances(DGR362).pdf

U.S. Dept. of Transportation Guidance for Transporting Ebola:

Http://phmsa.dot.gov/portal/site/PHMSA/menuitem.6f23687cf7b00b0f22e4c6962d9c8789/?vgnextoid=4d1800e36b978410VgnVCM100000d2c97898RCRD&vgnextchannel=d248724dd7d6c010VgnVCM10000080e8a8c0RCRD&vgnextfmt=print



Your Specimen Containment & Shipping Experts for Over 25 Years....

800 Industrial Park Road Carbondale, Illinois 62901 USA

Tel: 800-824-0817

INTERIM GUIDANCE FOR

Specimen Collection, Transport, Testing, and Submission for Patients with Suspected Infection with Ebola Virus Disease

NOTIFICATION & CONSULTATION

Hospitals should follow their state and/or local health department procedures for notification and consultation for Ebola testing requests before contacting CDC.

CDC cannot accept any specimens without prior consultation.

FOR CONSULTATION, CALL THE CDC EMERGENCY OPERATIONS CENTER AT

770-488-7100



WHEN SPECIMENS SHOULD BE COLLECTED FOR EBOLA TESTING



Ebola virus is detected in blood only after the onset of symptoms, usually fever. It may take up to 3 days after symptoms appear for the virus to reach detectable levels. Virus is generally detectable by real-time RT-PCR from 3-10 days after symptoms appear.



Ideally, specimens should be taken when a symptomatic patient reports to a healthcare facility and is suspected of having an Ebola exposure. However, if the onset of symptoms is <3 days, a later specimen may be needed to completely rule-out Ebola virus, if the first specimen tests negative.

PREFERRED SPECIMENS FOR EBOLA TESTING

A minimum volume of 4 milliliters of whole blood preserved with EDTA is preferred but whole blood preserved with sodium polyanethol sulfonate (SPS), citrate, or with clot activator can be submitted for Ebola testing.

Specimens should be shipped at 2-8°C or frozen on cold-packs to CDC. Do not submit specimens to CDC in glass containers. Do not submit specimens preserved in heparin tubes.



Specimens other than blood may be submitted upon consult with CDC.

Standard labeling should be applied for each specimen. The requested test needs to be identified only on the requisition and CDC specimen submission forms.

2-8°C



DIAGNOSTIC TESTING FOR EBOLA PERFORMED AT CDC

Several diagnostic tests are available for detection of Ebola virus disease. Acute infections will be confirmed using a real-time RT-PCR assay (CDC test directory code CDC -10309 Ebola Identification) in a CLIA-accredited laboratory. Virus isolation may also be attempted. Serologic testing for IgM and IgG antibodies will be completed for certain specimens and to monitor the immune response in confirmed Ebola virus disease patients (#CDC-10310 Ebola Serology).

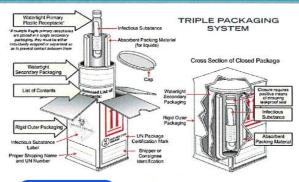
Lassa fever is also endemic in certain areas of West Africa and may show symptoms similar to early Ebola virus disease. Diagnostic tests available at CDC include but are not limited to RT-PCR, antigen detection, and IgM serology, all of which may be utilized to rule out Lassa fever in patients who test negative for Ebola virus disease.



TRANSPORTING SPECIMENS WITHIN THE HOSPITAL/INSTITUTION

In compliance with 29 CFR 1910.1030, specimens should be placed in a durable, leak-proof secondary container for transport within a facility. To reduce the risk of breakage or leaks, do not use any pneumatic tube system for transporting suspected Ebola virus disease specimens.

PACKAGING & SHIPPING CLINICAL SPECIMENS TO CDC



Specimens collected for Ebola virus disease testing should be packaged and shipped without attempting to open collection tubes or aliquot specimens.

Specimens for shipment should be packaged following the basic triple packaging system which consists of a primary container (a sealable specimen bag) wrapped with absorbent material, secondary container (watertight, leak-proof), and an outer shipping package.

Your Specimen Containment & Shipping Experts for Over 25 Years....



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What is Polio?

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Specimen Collection, Storage, & Shipment

Refer to this table when you collect, store and ship specimens. Before sending specimens to CDC, please contact wnix@cdc.gov or soberste@cdc.gov.

Note that CDC will use real-time PCR for generic testing and nested PCR for typing.

Specimen Type	Minimum Amount	Collection	Storage	Shipping	Comments
Respiratory - NP/OP swab	1ml	Store in viral transport medium	Freeze at -20°C	Ship on dry ice	
Respiratory - NP/OP wash or aspirate	1ml	Collect in sterile container, no special medium required	Freeze at -20°C	Ship on dry ice	
Stool	≥1gram	Collect in sterile container, no special medium required	Freeze at -20°C	Ship on dry ice	Virus present for longer than other specimen types
Rectal swab	≥1gram	Store in viral transport medium	Freeze at -20°C	Ship on dry ice	
Cerebrospinal fluid (CSF)	≥150 ul	Collect in sterile container, no special medium required. Collect within 0-4 days of symptom onset (earlier the better)	Freeze at -20°C	Ship on dry ice	
Serum					Not recommended
Fresh-frozen tissue	N/A	Place directly on dry ice or liquid nitrogen	Freeze at -70°C	Ship on dry ice	Preferred to formalin- fixed/paraffin embedded tissue
Formalin-fixed or formalin-fixed, paraffin- embedded tissue	N/A	Avoid prolonged fixation—can fix in formalin then transfer to 100% ethanol	Room temperature	Ship at room temperature with paraffin blocks in carriers to prevent breakage	Acceptable, but lower sensitivity than fresh- frozen tissue

Print page

Contact Us:



Centers for Disease Control and Prevention 1600 Clifton Rd Atlanta, GA 30333



800-CDC-INFO (800-232-4636) TTY: (888) 232-6348 Contact CDC-INFO





