

Top 5 Shipping Concerns for Clinical Trial Logistics

Drug developers are working to decrease the risk of drug development and lower development costs below \$2.558 billion, which is the estimated cost to bring a new drug to market, according to the [Tufts University Center for the Study of Drug Development](#). One strategy is to conduct clinical trials internationally, despite their logistical challenges. Trial leaders say their leading logistical concerns for temperature sensitive therapeutics are:

1. Chain of custody – One temperature excursion can alter drugs and destroy samples, dooming drug development programs as well as individual trials. Cryoport eliminates those risks by maintaining -150°C for 10 days, ensuring that what was shipped is exactly what is received.
2. Security – [The World Health Organization](#) estimates that up to 30 percent of all therapeutic agents in some developing countries are tampered with. Diverting shipments is one method counterfeiters use to get the goods. By monitoring and documenting the temperature inside the dewar, Cryoport knows when and where a package was opened, and for how long, so shippers can act.
3. Viability in transport – A paper published in the proceedings of the 6th World Congress of Biomechanics (2010) indicates that only 0.1% of the cells obtained from an established cell bank, kept at 2-8°C and packaged for immediate use, actually survived after 24 hours of vibrations simulating transportation. Cryoport's shock-absorbing package reduces cell membrane-disruptive vibrations, delivering cells in the same condition as when they left the shipper.
4. Clearing Customs – Too often, even perfectly documented shipments are delayed by overzealous customs agents. If a package is delayed, Cryoport can work with our shipping partners to get it cleared, even walking it through customs, if necessary.
5. Resource Optimization – Because Cryoport's dry vapor shipper maintains -150°C for at least 10 days, packages can ship over weekends or holidays safely, without re-icing, and therefore maximizing investments in analytic labs and personnel.

To learn more about strategies to improve your clinical trial logistics, visit cryoport.com or call +1 949.232.1900.