

Test Your Therapies Under Concurrent Worst-Case Conditions with Modality Solutions' Advantage Transport Simulation Laboratory™

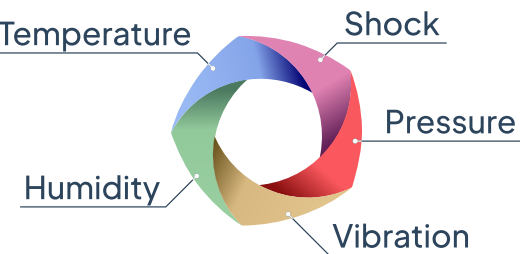
The only multi-modal independent lab with the capability to test for all five transportation hazards, concurrently, and at the edge of your cold chain's operating space

Ensure Product Safety from Origin to Destination.

Given the time and expense it takes to bring a new therapeutic to market—and the increased regulatory scrutiny your advanced therapy will face—there's no room for error. Real-world shipping tests don't achieve worst-case conditions that your therapeutic may actually face in transit.

Our proprietary approach enables the study of concurrent transport stresses on your drug product. Your product is exposed to not only temperature and humidity hazards, but also low pressure, shock, and vibration. Unlike sequential testing standards, the hazards are applied concurrently and reflect the same intensity and duration customized to your supply chain.

Transport simulation testing is now recognized industry-wide as the only way to accurately gauge how your therapeutic and your biopharmaceutical cold chain will interact under worst-case conditions—and the only way to gain confidence that your drug will remain stable under those conditions.



Will your therapeutic stand up to the environmental hazards it may face during transportation?

Our transport simulation testing technology and regulatory experience span the full range of therapeutic modalities and their diverse cold chain requirements.

- Pharmaceuticals
- Biologics (including mAbs)
- mRNA Vaccines
- Drug-Device Combination Products
- Antibody-Drug Conjugates (ADCs)
- Regenerative Medicines (CAR-T Cell Therapies)
- Gene Therapies

Simulation Lab Specs:

Temperature	-35°C to 60°C
Humidity	80-90% RH @ 10°C 45-95% RH @ 20°C 20-95% RH @ 40°C 10-95% RH @ 60°C
Pressure	7.0 to 14.2 psia
Vibration	All Standard ISTA and ASTM profiles along with customized client-required profiles are available with 3500 lbs. max load.
Shock	All ISTA and ASTM free-fall drop tests are limited to 150 lbs. Unitized loads, pallets, and large containers can be drop tested in the warehouse area.
Dimensions	Footprint 63" X 63" Max Width 83" Max Height 86" Max

Our Advantage Transport Simulation™ Lab brings together the advanced facilities and engineering know-how to conduct rigorous transport simulation testing that yields the data you and your regulators need for assurance.

Studies performed in the Transport Sim Lab.

Our cold chain engineering expertise and testing capabilities cover all aspects of your shipping validation strategy to have you ready for commercial launch.

- Product Transport Simulation
- Candidate Formulation Assessment
- Plunger Movement Characterization
- Thermal Packaging Qualification
- Secondary Packaging Qualification
- Label Scuffing Evaluation
- Double Stacked Pallet Testing
- Engineering Studies