

CRYOPORT EXPRESS® HIGH VOLUME CRYOGENIC ADVANCED THERAPY SHIPPERS™

The Cryoport Express® High Volume Cryogenic **Advanced Therapy Shipper™** (ATS) is an IATA certified, non-hazardous, pre-packaged, dry vapor shipping container. The shipper and our processes are designed to be used exclusively for cell and gene therapies containing human clinical and/or commercial product. We guarantee your **Advanced Therapy Shipper™** has never contained non-human-based materials, virtually eliminating the possibility for cross-contamination.

The Cryoport Express® High Volume Cryogenic Shipper has six times the capacity of our standard size shipper, and maintains temperatures below -150°C with a dynamic hold time of up to 10 days. Superior cryogenic shipping conditions virtually eliminate temperature excursions that can potentially damage samples and cause cell viability loss.

Specifications	ATS High Volume Shipper
Dynamic Holding Time	Up to 10 days
Holding Temperature	-150°C or colder
Specimen Chamber	8.5" (215.9 mm) diameter, 12" (304.8 mm) depth
Storage Capacity – Boxes <ul style="list-style-type: none"> 405 vials: Five 5" x 5" x 2" cryovial boxes 81 2.0 ml vials per box 500 vials: Five 5.25" x 5.25" x 2" cryovial boxes 100 2.0ml vials per box 	Accessories Metal Cryovial Box Rack OR Safepak®XL Tyvek Bag with optional Cryostrap®
Storage Capacity – Canes <ul style="list-style-type: none"> 500 vials 100 canes Five 2.0 ml vials per cane 	Accessories Up to 4 Metal Canisters with 25 canes per canister OR Up to 6 Safepak® Tyvek bags with 15 canes per bag
Storage Capacity – Cassettes <ul style="list-style-type: none"> 9 cassettes (up to 9" x 6.5" x 0.5") Additional quantities depending on cassette size 	Accessories Metal Cassette Rack OR Safepak®XL Tyvek Bag with optional Cryostrap®
Weight	Dry - 50 lbs./ 22.7 kg; Charged - 71 lbs./ 32.2 kg
Domestic Dimensional	79.68 lbs. / 36.14 kg
International Dimensional	94.01 lbs. / 42.64 kg
Outer Container	22" (558.8 mm) diameter x 27" (685.8mm) tall



KEY ATS FEATURES:

Cryoport's Advanced Therapy Shipper™ fleet is the latest in Cryoport's Chain of Compliance® solution portfolio, providing complete traceability, assurance, and certification that all equipment has exclusively been utilized for human clinical and commercial drug product distribution.

➤ *Meets recently published ISO 21973:2020 standards: General requirements for transportation of cells for therapeutic use.*

Fully segregated fleet, including separate processes and physical segregation of ATS associated equipment, shippers and accessories.

➤ *Segregation ensures ATS shippers are free of cross-contamination by handling them separately from other fleets.*

Shipper use is managed by Cryoport's Cryoport® Logistics Management System.

➤ *Prevents violation of procedures and potential for cross-contamination from order entry through processing utilizing programmed logic to ensure ATS blue shippers are exclusively used only for advanced therapies and biomaterials of human origin.*

Signed Certificate of Conformance.

➤ *Formal certification with wet signature from Cryoport QA personnel, documenting the ATS shipper processed for each order has only been used for cell and gene therapy products of human origin.*

ATS shippers are requalified after each journey for physical suitability, cleanliness, liquid nitrogen capacity, and minimum required hold times prior to the next shipment.

➤ *Cryoport is the only company in the industry that provides 100% requalification of our entire fleet after every use. Shippers are removed from our fleet if the specifications do not meet Cryoport's internal criteria.*

Veri-Clean™, Cryoport's proprietary validated cleaning and disinfection process, is used on ATS shippers.

➤ *The process results in a >6 log reduction of tested biological indicators, virtually eliminating the risk of cross-contamination.*