

## Cold Chain Shipping

While many of our products can be shipped overnight at ambient temperature without any significant effect on product quality, there are a few catalog items that must be shipped frozen to maintain their integrity while in transit. The methods used for cooling will depend on both the nature of the product and the anticipated delivery time. Table 1 outlines the products that ship frozen and our preferred method of maintaining temperature. Items sent using ice packs are charged our normal shipping fees, but Dry-Ice based Cold Chain Shipments have an additional cost, with fixed special handling fees for Domestic<sup>1</sup> and International destinations shipping via FedEx Priority Express or International Priority Express.

Table 1		Shipping Destination			
Item Name	SKU	USA <sup>1</sup>	North America <sup>2</sup>	Europe, China, Central America	Australia, Africa, Asia, South America
Fluo-4 AM Ultrapure	1043	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
MDR Kit	3330	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
Viability Kit	5000	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
Ethidium in DMSO/H <sub>2</sub> O	5020	Ice Packs	Ice Packs	Ice Packs	50 lbs Dry Ice
Calcein in DMSO	5030	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
MitoVolt Kit	5100	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
JC-10 in DMSO	5110	Ice Packs	10 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice
Cell Lines	All	5 lbs Dry Ice <sup>3</sup>	10-20 lbs Dry Ice	20 lbs Dry Ice	50 lbs Dry Ice

<sup>1</sup> Shipping to the Lower 48 States; <sup>2</sup> Shipping to Alaska, Hawaii, Puerto Rico, Canada, and Mexico; <sup>3</sup> Dry Ice amounts are based on an estimate that 5-10 lbs of dry ice is required for each 24 hours of transit to maintain freezing temperatures

### What Other Items Can and Cannot Be Included in the Cold Chain Shipment?

Many of our products that normally ship ambient, can safely be included in the frozen item(s) package and not require a separate shipment. This includes all dyes and several buffer solutions which can be thawed and stored refrigerated upon receipt. However, some of our buffers cannot be shipped frozen, as this causes precipitation that may not readily redissolve on warming. These buffers, and the kits that contain them (shown in Table 2 below), must be shipped separately.

Table 2	SKUs that Must Ship in a Separate Package from Frozen Items
Probenecid Solutions	7300P-50, 7300P-100
Thallium Sulfate Solution	7040S
Assay Kits	8000, 9000, 10000, 10020, 11000, 11011, 11015, 11020, 11021, 11100