



Boston Children's Hospital

Department of Pathology
Laboratory for Molecular Pediatric Pathology

Sample Shipping Guidelines

Samples must be:

- Collected in a non-expired, securely sealed intact container
- Placed in a secondary container
- Labeled clearly
- Accompanied by a sample manifest within the shipping box
- Please use the table below guidance on sample containers and temperature of transportation.

Sample Packaging Guidelines

- Please refer to the CDC guidelines for rules and regulations for shipping biohazardous material and dry ice.
 - o CDC Guide for Packaging Samples with Dry Ice:
https://www.cdc.gov/labstandards/pdf/vitaleqa/Poster_Shipping.pdf
 - o CDC Guide for Packaging Biological Substances:
https://www.cdc.gov/nceh/vsp/cruiselines/OPRP/docs_word/diagnostic_specimen_shipping_detailed.doc

Sample Criteria for Transport

Sample Type	Container/Matrix	Transportation	Minimum Amount Required
Blood/Bone Marrow	EDTA (lavender top)	4°C, cold packs	300 µL
Fresh Tissue	Microfuge tube or Cryotube	Frozen, Dry Ice	50 mg
Frozen Tissue	Microfuge tube or Cryotube		
FFPE Tissue	Glass slides or scrolls in microcentrifuge tube	Room Temp (15°C to 30°C)	1-10 µm sections totaling to 30 µm
Bone Marrow Aspirate Smears	Glass Slide	Room Temp (15°C to 30°C)	2 slide
Frozen Cells	Cryotube or microfuge tube	Frozen, Dry Ice	4 x 10 ⁶ to 1.1 x 10 ⁷ cells
DNA	cryotube, microcentrifuge tube, or strip tube securely sealed	4°C, cold packs	210 ng of DNA in 20 µL molecular grade nuclease-free water
RNA	cryotube, microcentrifuge tube, or strip tube securely sealed	Frozen, Dry Ice	550 ng of RNA in 50 µL of molecular grade nuclease-free water
TNA	cryotube, microcentrifuge tube, or strip tube securely sealed	Frozen, Dry Ice	550 ng of RNA in 50 µL of molecular grade nuclease-free water