



CryoPrep Dry Pulverization System

The Covaris CryoPrep is an automated tissue pulverizer, designed specifically for use with tissueTUBES. The CryoPrep precisely controls the impact force required to pulverize biological specimens into fine powder (under cryogenic conditions). The CryoPrep is designed for use with a broad range of "hard" tissue types such as, bone, cartilage, muscle and seeds, as well as softer tissues such as brain, liver and plant materials.

CryoPrep can be used as a stand-alone tissue processing device or can be combined with the Covaris S-series and E-series ultrasonicators for downstream extraction applications.

Learn more about the CryoPrep and TissueTUBES at www.covarisinc.com

TissueTUBES™ for use with the CryoPrep™ Dry Pulverization System

The quality of the analysis depends on the quality of the sample preparation.

Sample preparation is often a complex process demanding high recoveries and tight control over multiple key variables such as, heat, processing time and the introduction of chemicals. Controlling sample preparation, beginning at the tissue collection point, can provide significant improvements to downstream analytical results.

The Covaris TissueTUBE™ combined with the CryoPrep™ Dry Pulverization System, provides scientists with unparalleled sample processing performance and control.

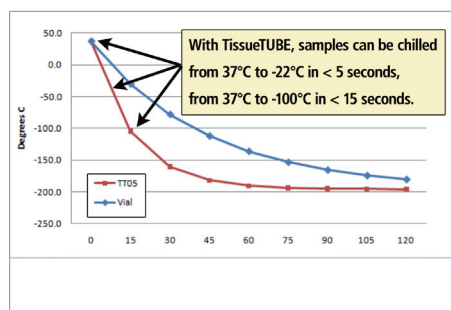
The TissueTUBE

The CryoPrep TissueTUBE is specifically engineered for rapid heat extraction and provides non-contact, closed vessel sample processing. The TissueTUBE is constructed of durable Kapton® which remains flexible at cryogenic temperature levels.

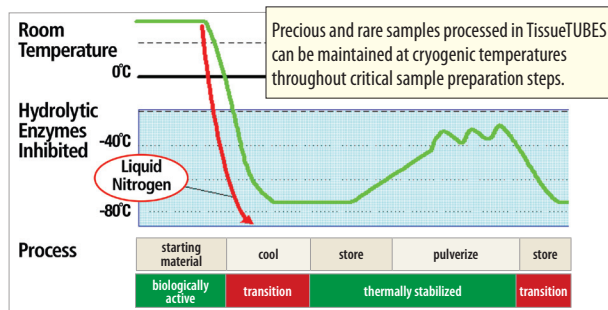
The TissueTUBE enables snap freezing of fresh tissue samples 3 times faster than traditional vials, which is critical because accurate sample analysis requires immediate suspension of metabolic processes.

A wide variety of TissueTUBES are available for your application, tissue type, and sample volume requirements.

TissueTUBE vs. Cryo-compatible Vials



Thermally Stabilize Samples with TissueTUBE



Key Features

Cryogenic temperature-compatible sample pouches.

Benefits

- Ideal vessel for the collection, processing, transfer, and storage of tissue samples at cryogenic temperatures

Rapid thermal stabilization for all types of tissue samples

- No temperature related tissue degradation of labile molecules

Dry cryogenic pulverization into powder or very fine particles

- Increased sample surface area for higher recoveries
- Ready access for sample distribution to multiple experiments
- No storage media / solvents required

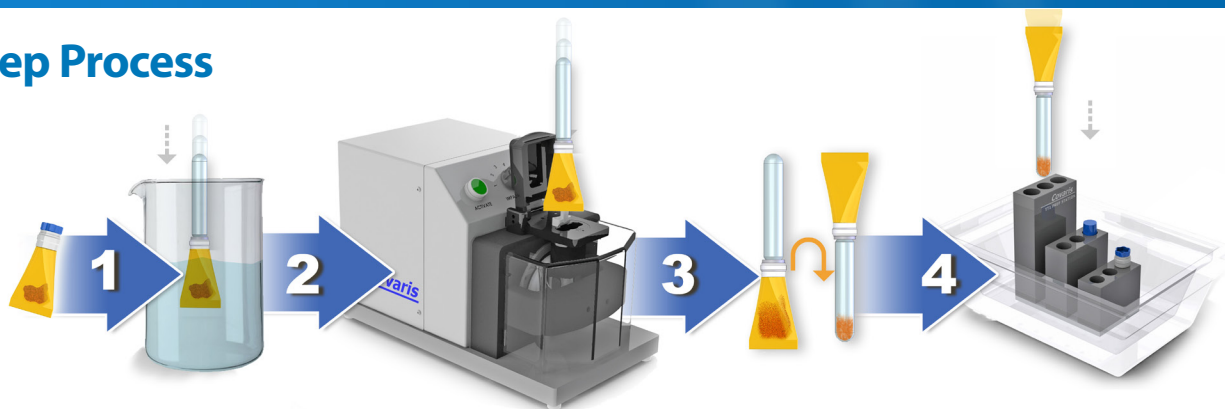
Standardized tissue sample processing

- Highly Reproducible Processing Results:
- Day-to-day
 - Experiment-to-experiment
 - Scientist-to-scientist
 - Laboratory-to-laboratory

Non-contact closed-vessel processing

- No sample-to-sample cross contamination
- No cleanup required
- No aerosol risk

CryoPrep Process



CryoPrep TissueTUBES and Accessories

Tissue Tube Part No.	Product Name	Description	Quantity
520071	TT05	TissueTubes for sample collection, storage, pulverization, and transfer. For samples of mass <.05 gm	25
520072	TT05XT	TissueTube EXTRA THICK designed for hard tissue (e.g. bone, skin, corneal) For samples of mass <.05 gm	25
520001	TT1™	TissueTubes for sample collection, storage, pulverization, and transfer. For samples of mass <1gm.	25
520006	TT1P	Plugs for use with the TT1 and TT1XT. Polypropylene with silicon O-ring for cryogenic storage. 25/bag	25
520009	TTCASE	12 boxes of TT1 and 12 bags of TT1P packaged together	12 Boxes/12 Bags
520036	TT1CASE 24 (TUBES ONLY)	24 boxes of TT1 packaged together	24 Boxes
520007	TT1XT	TissueTube EXTRA THICK designed for hard tissue (e.g. bone, skin, corneal). For samples of mass <1gm.	25
520044	TTXTCASE	12 boxes of TT1XT and 12 bags of TT1P packaged together.	12 Boxes/12 Bags
520021	TT2	TissueTubes for sample collection, storage, pulverization, and transfer. For samples of mass <2gm.	25
520023	TT2P	Plugs for use with the TT2. Polypropylene with silicon O-ring for cryogenic storage. 25/bag	25
520034	TT2CASE	12 boxes of TT2 and 12 bags of TT2P packaged together	12 Boxes/12 Bags
520008	TT3	Pouches for sample of mass > 2gm (up to 10gm), to be used with the CP03 (500049). 25/bag	25
TISSUE TUBE ACCESSORIES			
500231	TT05 Holder	CryoPrep Tissue Tube Holder for TT05 (520071) and TT05XT (520072)	1
500095	TT1 Holder	CryoPrep Tissue Tube Holder for TT1 (520001) and TT1XT (520007)	1
500096	TT2 Holder	CryoPrep Tissue Tube Holder for TT2 (520021)	1
520062	TT1ADP12	TissueTube (TT1) threaded adapter for 520056 (12 x 24mm tubes) 25/bag	1
520017	TT1ADP13	TissueTube (TT1) threaded adapter for 520010 (13 x 65mm) and 520048 (15 x 19mm) vials. 25/bag	1
500159	TT1 CLASP	Clasp for the 520017 adapter (see above) for use with either 15 x19mm vials or 12x24mm vials	1
500041	TT1R	Sample collection rack to hold 8 TT1. Designed for immersion into liquid nitrogen or dry ice bath.	1
500091	Cryo KIT TT2	CryoPrep Conversion Kit for TT2 TissueTubes	1
500157	Cold Station TT1	CryoPrep Cold Station for TT1 TissueTube Preparation	1
500166	Cold Station TT2	CryoPrep Cold Station for TT2 TissueTube Preparation	1