

CryoGlass™

Description Cryoglass™ is an innovative cryoprotectant solution from Teomics. Sucrose is widely used to preserve tissue prior to cryosectioning, but its use can result in freezing artifacts that damage tissue. Now you can save time, effort and money with our innovative solution CryoGlass™, resulting in consistent, reproducible cryopreservation of your precious tissue. CryoGlass™ is a proprietary blend of alcohols, resins and sugars that allows for rapid 3-hour cryoprotection and long term cryopreservation of your samples at -80°C.

CryoGlass™ efficiently protects tissue every time, greatly minimizing the effects of repeated freeze-thaw artifacts; once in CryoGlass™, most types of tissue can be frozen at -80°C and thawed repeatedly without visible tissue artifacts. (Although we don't recommend that you do this, we've been able to freeze and thaw tissue in Cryoglass up to 20 times without a loss of staining or tissue artifacts!) Our product leaves no residue on slides during staining procedure, eliminating undesirable background staining.

Uses Cryopreservative for tissue preservation

Limitations Do not use past expiration date.

Storage Store Cryoglass at 2-8°C. Our product is stable for 18 months from date of manufacture.

Procedure

1. Using fixed or preserved tissue, place tissue into a specimen container.
2. Pour CryoGlass solution over each specimen. We recommend that you use 10-15 times the volume of the tissue. Example: for a typical mouse brain, you should use 10-20 mL of solution.
3. Gently shake the tissue on a shaker table in CryoGlass. Refrigeration is not needed for preserved tissue, but can be used. As general guidelines, for smaller pieces of tissue (mouse organs), 3-4 hours is recommended. For larger pieces of tissue (multigram), 1-2 days is recommended.
4. Tissue is cryoprotected once the tissue sinks to the bottom of the container, and may be embedded for cryosectioning.
5. Tissue and tissue sections that have been cryoprotected with Cryoglass may be stored in CryoGlass at -80C for at least one year.