CryoCompound Freezing embedding medium

General Reagents

Availability

REF	Color
PSW-GRI2200W-0100	Blue
PSW-GRI2201W-0100	Bright
PSW-GRI2202W-0100	Green
PSW-GRI2203W-0100	Red

Intended use

PathoSage CryoCompound Freezing Embedding Medium (Ready-to-Use) is intended for in vitro diagnostic use in the preparation of frozen tissue specimens. It is designed to embed and stabilize tissues for sectioning with a cryostat, ensuring proper orientation and preservation during the freezing process. The medium maintains tissue morphology and antigenicity, supporting reliable performance in immunohistochemistry (IHC) procedures. Compared to FFPE methods, frozen sectioning with CryoCompound offers a faster turnaround, enabling rapid sample processing and earlier results in diagnostic and research laboratories.

Specification

Form: Aqueous-based embedding medium
Application: Frozen tissue embedding for cryostat sectioning
Working Temperature: –20 °C
Hardening Time: 05. – 1 minute
Colors Available: Blue, Bright, Green, Red

Principle of Method

1. Place few drops of CryoCompound (depends on the size of the sample to be embedded) onto the center of the bottom of cryomold. Be careful to select the proper size embedding mold according to the size of the sample to be embedded.
2. Try to avoid the formation of air bubbles. Remove any bubbles inside the CryoCopound. This is important because the air bubbles will create problems when cutting sections. Air bubbles create freeze- thaw-freeze cycle and ice crystal will form inside of it and result in a very bad morphology due to the ice crystal artefact.
3. Let it settle for 30-15 seconds to allow the CryoCompound to completely wet the surface of the tissue. Hardening of the CryoCompound included the sample (it will happen in 1-0.5 minute) before preparing the CryoCompound-sample-block.

Materials Provided

PathoSage CryoCompound

Materials Required but not Provided

- Cryostat
- Embedding molds (appropriate size)
- Tissue forceps and tweezers
- Freezing platform or cold stage
- Disposable gloves and protective lab coat

Storage and Stability

Store at room temperature. Do not use after expiration date.

Warnings and Precautions

The performance of PathoSage CryoCompound depends on proper handling and correct use of the freezing method. Tissue quality and morphology can be affected by improper freezing, thawing, embedding, or sectioning. Formation of ice crystals, air bubbles, or contamination may result in poor section quality and artifacts. Variations in cryostat settings, cutting temperature, or user technique may also influence reproducibility. The product itself does not correct for pre-analytical variables; therefore, consistent procedures and appropriate laboratory practices are essential to obtain reliable results.

General Limitations

CryoCompound is intended for use as an in vitro diagnostic (IVD) embedding medium for cryostat sectioning of human and animal specimens. It is not suitable for direct therapeutic application, in vivo use, or any purpose outside the scope of IVD workflows. The product functions exclusively as a support matrix for frozen tissue sectioning and must not be used as a substitute for fixation or for long term preservation of diagnostic specimens.

Optimal performance is achieved at approximately –20°C; use outside this temperature range may compromise section integrity or alter morphological characteristics relevant to diagnostic evaluation. Color variants are provided solely to facilitate sample identification and carry no functional, chemical, or diagnostic differences.

CryoCompound must not be mixed with other embedding media, reagents, or chemicals, as such combinations may interfere with sectioning performance or downstream staining and analytical procedures. The product does not confer protection against microbial contamination or enzymatic degradation; therefore, standard laboratory biosafety and specimen handling protocols must be strictly followed.

LABEL AND BOX SYMBOLS

Explanation of the symbols of the product label and box:

	Expiration Date	REF	Refrence Number	LOT	Lot Number
RTU	Ready To Use	IVD	In Vitro Diagnostics		