



## Instructions for Use (IFU)

**Product Name:** MCC (Milestone Cryoembedding Compound)

**Product Description:** Milestone MCC (Cryoembedding Compound),  
Low Visc, 125ml x 12

**Catalog Number:** 6703MILE01

**Unit of Measure:** 12 x 125ml containers per case

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### 1. Intended Use

MCC is formulated for use in In-Vitro-Diagnostic medical devices.

MCC is an aqueous based embedding medium suitable for frozen histological specimens.

MCC is to be used for preserving the specimen and attaching the sample to the cryostat specimen holder (chuck). MCC protects the sample and is designed to cut well as well as support the specimen during cryostat sectioning.

MCC is intended for use with Milestone's PrestoCHILL instrument.

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### 2. Summary and Explanation

Embedding tissue for cryostat sectioning involves freezing the tissue in a precise position within the embedding medium, which attaches the tissue to a chuck. The embedding medium is a viscous aqueous solution of polyvinyl alcohol and polyethylene glycol designed for easy freezing and sectioning at a temperatures of  $-15^{\circ}\text{C}$  to  $-30^{\circ}\text{C}$ . The embedding medium adheres samples to provide a support matrix to preserve morphology and cellular detail.

MCC has a lower viscosity than some other embedding compounds, resulting in fewer bubbles and good coverage. This makes it particularly suitable for the face-down freezing technique used in Milestone's PrestoCHILL.

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### 3. Materials Required but Not Provided

MCC is ready to use and therefore does not require any dilutions.

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### 4. Warnings and Precautions

The product is intended for use by specialized technical personnel.

Carefully read the information concerning Hazard Statements and Safety Advice stated on

the label.

Consult the Safety Data Sheet (SDS) for risk information, precautionary measures to be taken during use, first aid instructions, and hazard information in case of accidental release.

Do not use if the packaging is damaged.

MCC is produced according to uniform and controlled methods following Quality Control Specifications. During and after use, handle all materials according to Good Laboratory Practice, and always remember that the material to be analyzed must be considered a potential biological risk.

The product causes groundwater pollution. Refer to the Safety Data Sheet (SDS) for disposal instructions.

Any other use of the product not detailed in this IFU is considered improper and relieves the manufacturer of responsibility.

Medical devices and in vitro diagnostic medical devices are subject to surveillance by the National Competent Authority for their safety.

In the event of a serious accident, it is required to inform the competent Authority and Milestone by reporting the incident to: [applications@milestonemed.com](mailto:applications@milestonemed.com)

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## 5. Storage and Stability

MCC is contained in a plastic bottle for light protection, with a sealed cap; store tightly closed, away from light, in a cool and dry place.

The shelf life of the product is 24 months in undamaged packaging and under correct storage conditions. After opening the bottle, the reagent can be used until the expiration date indicated on the package.

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## 6. Procedures for Use

The freezing times of tissues embedded in MCC are linked to certain variables:

- The dimensions of the samples to be frozen and consequently the mold used for freezing
- The type of tissue

The ideal freezing times at -40°C for each specific type of mold are explained in the PrestoCHILL operator manual.

The freezing times for tissues suitable for round molds with a diameter of 30mm are as follows:

Sample thickness	Freezing time (secs)
5mm	30
7mm	60
10mm	80

The freezing times for tissues suitable for round molds with a diameter of 40mm are as follows:

Sample thickness	Freezing time (secs)
5mm	45
7mm	75
10mm	180



The freezing times above are established based on each laboratory's experience: the technician increases the freezing time if the tissue is too soft to cut, which leads to the formation of thick and compacted sections, while they reduce the freezing time if the block is too hard to cut, which leads to sections damaged by folds or breaks parallel to the cutting line.



A longer freezing time is required for specimens containing fatty tissue.



Before making any changes to a program, contact our Applications team by emailing: [applications@milestonemed.com](mailto:applications@milestonemed.com)

MCC is a disposable compound; it may be stored with the specimen after freezing for subsequent analyses or removed from the specimen for processing.

## 7. Waste disposal



The residues of MCC are considered to be special non-dangerous waste. Disposal must be entrusted to a company authorized to manage waste, following national, state, and local regulations in accordance with institutional policy. If MCC has been in contact with histological specimens, it should be disposed of as infectious special waste.

For further information, please refer to the Safety Data Sheet (SDS).

## 8. Manufacturer Information










**StatLab Medical Products**

2090 Commerce Drive

McKinney, TX 75069

1-800-442-3573

**9. Symbols and Definitions**

	Instructions with this symbol are important and require more attention
	Biohazard: Use caution when performing the procedure marked with this symbol because there is danger of biohazard contamination.
	IVD medical device according to 2017/746 Regulation (EU)
	Reference number
	Lot number
	Manufacturer
	Expiration date
	<p><b>DANGER</b></p> <p>H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled</p> <p>H317: May cause an allergic skin reaction</p> <p>H340: May cause genetic defects</p> <p>H350: May cause cancer</p> <p>H360: May damage fertility or the unborn child</p> <p>H372: Causes damage to organs through prolonged or repeated exposure</p> <p>H373: May cause damage to organs through prolonged or repeated exposure</p> <p>P201: Obtain special instructions before use</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection</p> <p>P308+P313: IF exposed or concerned: Get medical advice/attention</p>
	<p><b>WARNING</b></p> <p>H302: Harmful if swallowed</p> <p>H315: Causes skin irritation</p> <p>H319: Causes serious eye irritation</p> <p>H335: May cause respiratory irritation</p> <p>H336: May cause drowsiness or dizziness</p> <p>H317: May cause an allergic skin reaction</p> <p>P261: Avoid breathing dust/fume/gas/mist/vapors/spray</p> <p>P280: Wear protective gloves/eye protection</p> <p>P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes</p>

For further information or clarity, please contact our applications team by emailing: [applications@milestonemed.com](mailto:applications@milestonemed.com) or calling 1-866-995-5300.