

Acrylosin SOFT Resin Embedding Kit

Acrylosin SOFT Resin Embedding Kit is an acrylic based embedding media that is specially formulated for use in thin section microtomy techniques specific to hard tissue histology. Characteristics of Acrylosin SOFT Resin Embedding Kit that separate it from its resin competitors are that it is polymerized by an exothermic reaction generated by the addition of a dry powdered catalyst (Perkadox 16), thus eliminating the need for purchase of additional costly equipment; its chemical composition and unique formulation allows for complete solubility rendering the embedded specimen free of resin and increasing staining flexibility for general staining, histochemical and potential immunohistochemical applications; and aside from its relatively low cost as compared to similar kits, it is conveniently easy to use.

Acrylosin SOFT Resin Embedding Kit comes packaged with a one (1) liter resin component, pre-formulated specifically for thin section microtomy using a motorized rotary and/or sledge microtome, along with three (3) grams of peroxide based catalyst (Perkadox 16). Simply combine a defined volume of resin (mL) with a calculated weight (g) of catalyst, mix thoroughly, and then ripen the solution for a predetermined period of time in a room temperature controlled environment. It's as easy as 1-2-3 and Acrylosin is ready for use with a wide variety of hard tissue specimens for thin section microtomy.

ACRYLOSIN RESIN EMBEDDING KITS

(Preparation)

1. Transfer 500 mL or 1000 mL of Acrylosin resin to a clear glass bottle.
2. Add 1.3 g/500 mL or 2.5 g/1000 mL of catalyst (Perkadox 16).
3. Add stir bar to solution, cap and lightly stir overnight (12-15 hours) at room temperature.
4. Add an appropriate amount of ripened embedding solution to a pre-polymerized base mold, transfer the resin infiltrated specimen to the specimen mold and draw a vacuum on the specimen for 6-8 hours uncapped if desired.
5. Cap the specimen mold and let stand at room temperature until resin polymerization is complete.

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(Preparation Facts)

1. Acrylosin is formulated to work best with 500 or 1000 mL total embedding solution preparations mixed with approximately 0.25% catalyst (w/w).
 - a. **1000 mL Acrylosin + 2.5 g Perkadox 16**
 - b. **500 mL Acrylosin + 1.3 g Perkadox-16**

2. Acrylosin polymerizes safely and consistently within 2-3 days at a room temperature of 21-22 C for volumes of 10-60 mL using ½, 1, 2 and 4 oz. polypropylene containers with a 1 cm pre-polymerized Acrylosin base.
 - a. **specimen containers are available at DHM with and/or without a pre-polymerized resin base**
 - b. **ripen the solution before use by lightly stirring for 12-15 hours (overnight) in the hood at room temperature (21-22 C)**
 - c. **when ripening the embedding solution, color will change from clear to yellowish indicating that the solution is ready for immediate use**
 - d. **the use of a water bath at 37 C, with the water level at or above the resin solution level in the specimen container, can be used safely to finish off any unpolymerized resin solution above the specimen after 24-48 hours**
 - e. **the use of an oven at 50-60 C can be employed to help air out and eliminate any pungent resin smells from the blocks after polymerization**
 - f. **polymerization of volumes larger than 60 mL require the use of a refrigerator in combination with room temperature by alternating between the two to better control polymerization and reduce the risk of over polymerization/bubbling of the resin due to excessive heat generated from the reaction**

3. Excess Acrylosin embedding solution containing mixed catalyst can be safely stored at 2-8 C and safely re-used within 1-2 weeks from the date of preparation.
 - a. **always let the Acrylosin solution and/or prepared embedding solution containing mixed catalyst equilibrate to room temperature before opening to avoid moisture contamination**
 - b. **unused Acrylosin can be left at room temperature to polymerize as waste and disposed of as glass waste**

If you have any questions about preparation or embedding please contact us anytime.

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