

Mold Release Concentrate - Technical Memo

SOLUTION:	120 ml	120 ml X 6	
Mold Release Concentrate	Part 1246A	Part 1246A	
Additionally Needed:			
Alcohol, Ethyl Denatured, 100%	Part 10841	or Alcohol, Isopropyl, ACS, 100%	Part 12094
Base Molds, Stainless Steel	Part 5104		

For storage requirements and expiration date refer to individual bottle labels.

APPLICATION:

Newcomer Supply Mold Release Concentrate, when diluted to a working solution, facilitates the clean release of cooled, solidified paraffin embedded tissue blocks from tissue embedding stainless steel base molds.

METHOD:

Solutions: All solutions are manufactured by Newcomer Supply, Inc.

PROCEDURE:

- Dilute Mold Release Concentrate to a Mold Release Working Solution following exact recommended proportions. Combine solutions in a plastic spray bottle and mix well;
 - Mold Release Concentrate 5 ml
 - Ethyl Alcohol or Isopropyl Alcohol 95 ml
 - Store unused Mold Release Working Solution at room temperature for up to 6 months.
 - Keep working solution tightly capped when not in use.
- Arrange clean and dry stainless steel tissue embedding base molds on paper towels or laboratory bench paper in an adequately ventilated area; preferably under a fume hood.
- Spray all embedding base molds thoroughly with Mold Release Working Solution, allowing small beads of solution to form on all embedding base mold surfaces that will come in contact with paraffin.
 - See Procedure Note #1.
- Allow embedding base molds to thoroughly air dry prior to use.
 - The evaporation process will leave mold release adhered to the embedding base molds, allowing easy removal of cooled embedded tissue blocks.
 - Thorough drying of treated embedding base molds will help to alleviate and/or avoid problems with tissue sectioning.
- Embed paraffin processed tissue in the treated and dried tissue embedding base molds and rapidly cool the paraffin blocks on the embedding center cold plate.
- After the paraffin has completely solidified, the cooled embedded blocks will easily and completely separate from the stainless steel embedding base molds.

PROCEDURE NOTES:

- Spraying stainless steel embedding base molds provides a better adherence of the Mold Release Working Solution and is preferred over soaking embedding base molds in the working solution.
- On occasion when embedded tissue blocks may be difficult to remove from embedding base molds, a sharp tap of the stainless steel embedding base mold on the bench top will facilitate removal.