

2505 Parview Road • Middleton, WI 53562-2579 • 800-383-7799 • www.newcomersupply.com • info@newcomersupply.com

Part 1246 Revised December 2022

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

5 ml

Base Molds, Stainless Steel Part 5104
Base Molds, Disposable Part 5105

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

APPLICATION:

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

METHOD:

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

PROCEDURE:

- Dilute Mold Release Concentrate to a working solution. Combine solutions in a plastic spray bottle and mix well;
 - a. Mold Release Concentrate
 - b. Ethyl Alcohol or Isopropyl Alcohol 95 ml
 - c. Store unused Mold Release Working Solution at room temperature for up to 6 months.
 - d. Keep working solution tightly capped when not in use.
- Arrange clean and dry stainless steel base molds (5104) or plastic disposable base molds (5105) on paper towels or bench paper in an adequately ventilated area.
 - a. See Procedure Note #1.
- Spray all embedding base molds thoroughly with Mold Release Working Solution, allowing small beads of solution to form on base mold surfaces that will come in contact with paraffin.
 - a. See Procedure Note #2.
- Allow embedding base molds to thoroughly air dry prior to use.
 - Thorough drying of treated embedding base molds is necessary to avoid residual Mold Release Solution mixing with paraffin during embedding process.
- Embed paraffin processed tissue in appropriate size embedding base molds that have been Mold Release treated and dried.
- 6. Cool paraffin blocks on embedding center cold plate.
- After paraffin has completely solidified, cooled tissue blocks will easily separate from embedding base molds.
 - a. See Procedure Note #3.
- Repeat treatment of clean and dry base molds with Mold Release Working Solution on a routine basis.

PROCEDURE NOTES:

- If plastic disposable base molds are reused, Mold Release Working Solution will assist with easier block release.
- Spraying embedding base molds provides a better adherence of Mold Release and preferred over soaking base molds in solution.
- If tissue blocks are difficult to remove from embedding base molds, a sharp tap of the base mold on the bench top will facilitate removal.

REFERENCES:

- Sheehan, Dezna C., and Barbara B. Hrapchak. Theory and Practice of Histotechnology. 2nd ed. St. Louis: Mosby, 1980. 66.
- 2. Modifications developed by Newcomer Supply Laboratory.

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