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Part 12086 Revised December 2022

Hydrochloric Acid 5%, Aqueous for Acid Cleaning Glassware - Technical Memo

SOLUTION: Part 12086A Part 12086B Part 12086C Hydrochloric Acid 5%, Aqueous 1 Liter 1 Gallon 20 Liters

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

APPLICATION:

Newcomer Supply Hydrochloric Acid 5%, Aqueous is a ready-to-use solution for acid cleaning glassware and is instrumental in ensuring laboratory glassware/plasticware is properly acid cleaned prior to solution preparation and performing silver, iron or calcium staining procedures.

METHOD:

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

PROCEDURE:

- Before proceeding with acid cleaning, all glassware/plasticware should be cleaned with a laboratory grade glassware detergent, washed and well rinsed.
 - Most new glass is slightly alkaline and should be washed before initial use.
- Using appropriate safety precautions, pour sufficient Hydrochloric Acid 5%, Aqueous into glassware; gently swirl to thoroughly coat all surfaces/sides/edges with the solution.
- Repeat this process for all glassware/plasticware to be used in procedures that requires acid cleaning, including bottles, beakers, flasks, Coplin jars, graduated cylinders, stir rods, pipettes, thermometers and lids.
 - a. See Procedure Note #1.
- Rinse all glassware/plasticware with a minimum of four changes of distilled water, ensuring that all surfaces/sides/edges have been rinsed well.
 - a. It is essential that the final rinses are distilled water or chlorine-free water. Tap water rinses may leave surface contaminates on glassware/plasticware resulting in potential staining issues.
- 5. Dry glassware in a designated area for acid cleaned glassware.

PROCEDURE NOTE:

 Use fresh Hydrochloric Acid 5%, Aqueous with every batch of glassware acid cleaned. The solution can be reused on multiple pieces of glassware/plasticware that are acid cleaned at the same time.

REFERENCES:

- aceglass.com. "What Are Good Cleaning Techniques for Laboratory Glassware?," December 20, 2016.
- Sheehan, Dezna C., and Barbara B. Hrapchak. Theory and Practice of Histotechnology. 2nd ed. St. Louis: Mosby, 1980. 134.
- 3. Modifications developed by Newcomer Supply Laboratory.

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