Thermo Scientific Nalgene Polypropylene Copolymer Dilution Bottles

Cat. No. 2505-0280 Narrow-Mouth
Cat. No. 2505-0380 Wide-Mouth

The polypropylene copolymer and polypropylene resins used to mold Nalgene® Dilution Bottles and Closures meet the requirements of the Food Additives Amendment of the U.S. Federal Food, Drug and Cosmetic Act.

Nalgene Dilution Bottles are designed for preparing serial dilutions, as used in microbiological analyses of dairy products, other foods and beverages, water and wastewater, cosmetics and pharmaceuticals. The dimensions and configurations of these bottles are similar to those of standard 160 mL milk dilution bottles made of glass.

These dilution bottles are made of **polypropylene copolymer (PPCO)**, a contact-clear plastic. **They are non-toxic, durable and autoclavable.** Unlike glass dilution bottles, they are lightweight and extremely resistant to chipping and breaking. **When used with their linerless screw closures of polypropylene (PP), the bottles are leakproof.**

These bottles are calibrated at both 90 mL (±4 mL) for 1/10 dilutions and 99 mL (±4 mL) for 1/100 dilutions. They are easily marked with grease or wax pencil. A convenient marking area is provided.

Guidelines for use

Cleaning

Before using, rinse the bottles thoroughly with distilled or deionized water. The bottles and closures can be washed in hot water and a mild, non-abrasive detergent. **Do not use steel wool or scouring pads.** Air dry. **PPCO labware withstands repeated washing and autoclaving with Tween®.** It can also be washed in a labware washing machine. To prevent excessive abrasion, metal spindles should be covered with a soft material, such as plastic tubing. The bottles should be weighted down and held in place with accessory racks.

Autoclaving
Clean thoroughly before autoclaving. Nalgene Dilution Bottles and Closures withstand repeated 20-minute autoclaving cycles at 121˚C/15 psig/1.03 bar.

Caution
Before autoclaving, remove closure completely or unscrew it at least one full turn to prevent collapse of bottles when cooling!

See the current Nalgene Labware Catalog for guidelines on other sterilization methods.

Temperature and Chemical Resistance
The PPCO bottles withstand temperatures from -40˚C to +121˚C. The PP closures withstand temperatures from 0˚ to +135˚C.

In general, PPCO has excellent resistance to detergents, bases and weak acids. It has excellent resistance to strong and concentrated acids and aliphatic alcohols, and good resistance to aliphatic hydrocarbons. It has more limited resistance to strong oxidizing agents and organic chemicals other than those mentioned above. In general, the PP closure has similar chemical resistance to PPCO. For detailed chemical resistance data, see the current Nalgene Labware Catalog.

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Asia: China Toll-free: 800-810-5118 or 400-650-5118;
India: +91 22 6716 2200, India Toll-free: 1 800 22 8374;
Japan: +81 3 3816 3355; Other Asian countries: 65 68729717
Europe: Austria: +43 1 801 40 0; Belgium: +32 53 73 42 41;
Denmark: +45 4631 2000; France: +33 2 2803 2180; Germany: +49 6184 90 6940,
Germany Toll-free: 08001-536 376; Italy: +39 02 02 95059 or 434-254-375;
Netherlands: +31 76 571 4440; Nordic/Baltic countries: +358 9 329 100;
Russia/CIS: +7 (812) 703 42 15; Spain/Portugal: +34 93 223 09 18;
Switzerland: +41 44 454 12 12; UK/Ireland: +44 870 609 9203
North America: USA/Canada +1 585 586 8800; USA Toll-free: 800 625 4327
South America: USA sales support: +1 585 899 7198
Countries not listed: +49 6184 90 6940 or +33 2 2803 2180

8-0403-83 1210

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