

Cleaning Glass Slides and Coverslips

Materials

The following carriers can be purchased from the Fluoroware division of Entegris:

- LCD Carrier (Blue Polypropylene) / Catalog # A93-01-0603
For 22mm coverslips.
- Handle for LCD Carrier (Polypropylene) / Catalog # A45-03-0603
For 3" glass slides.
- Carrier for 3" Plates (Polypropylene) / Catalog # A29-300-0603
For odd-sized coverslips.
- Wafer Carrier (2") / Cat # PA72-20M-0603
- Wafer Carrier (1 1/2 ") / Cat # PA72-15M-0603

- Ultrasonic Cleaner (Branson #2210)
- Ethanol 200 proof
- Ethanol 180 proof
- Sealable containers deep enough to cover carriers in ethanol
(e.g. Rubbermaid 6300 series available from Fisher Scientific / cat 3 03-484-2/1/2/3/4)
- Container deep enough to submerge carriers in water
- Micro-90 Soap (Cole Parmer order # 99999-01)
- Flat-ended tweezers
- Ultrapure water supply
- Deionized water supply
- Clean air gun (Simco Top-Gun)

Washing

- Load slides and coverslips in the appropriate sized carriers. Fill the Ultrasonic Cleaner with pure water and 1% Micro-90 soap. Submerge the loaded carriers in the cleaner and let sonicate at 60°C for an hour.
- Place carriers in a container and rinse under running tap for five minutes. Drain water and repeat the tap water rinse two more times.
- In a similar manner, rinse the loaded carriers under running deionized water for five minutes.
- In a similar manner, rinse the loaded carriers by submerging in ultrapure water three times.
- Remove carriers from the final rinse and allow excess water to drop for several seconds before placing them in the sealable containers. Fill the carriers with 180 proof ethanol and seal with cover. The glass is now ready for storage.

Before Use

- Before using a slide or coverslip, remove it from the ethanol with a pair of flat-ended tweezers and rinse well with a stream of 200 proof ethanol.
- Then thoroughly dry with a clean air gun in a dust free environment. The slide or coverslip will now be ready for use.