

	BIO-PM 4.25 PLASLABS PCR Chambers and Clonezone Reagent	
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	Document Manager: Kristin Schelling	Approved By: Jeffrey Nye

4.25 PLASLABS PCR Chambers And Clonezone Reagent Chamber

4.25.1 Scope

To provide a still-air, sterilizable enclosure to improve the accuracy of PCR results by reducing air-borne contamination.

4.25.2 Background Information

Plas-Labs Operator's Manual; CloneZone Operating Instructions.

4.25.3 Operation

4.25.3.1 Plas-Labs Chambers Daily Operation and Maintenance

4.25.3.1.1

Depress the black plastic knobs to open the corner doors. Place materials to be used (except samples) within the chambers.

4.25.3.1.2

Install the two shelves to suit your needs. Make sure the shelves are correctly aligned in the slots. One shelf has cutouts for pipettor storage.

4.25.3.1.3

Shut and lock corner doors.

4.25.3.1.4

Turn on UV light for 15 minutes prior to using the chamber. After this period of time, turn off the UV light. The chamber is now ready for use.

4.25.3.1.5

Upon completion of project, remove materials and close the doors. Reactivate the UV light for a minimum of 15 minutes to insure interior sterility.

4.25.3.2 Bulb Replacement

4.25.3.2.1

Make sure the unit is unplugged.

4.25.3.2.2

Remove the top housing and remove the burned out bulb.

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4.25.3.2.3

Reverse the procedure to install the new bulb.

4.25.3.3 Cleaners, Polishes, Scratch Removers

4.25.3.3.1

In general, aromatic and chlorinated hydrocarbons are not recommended, as they will attack the plastic surfaces.

4.25.3.3.2

Recommended cleaners include Brillianize, Polly-Kleen, Rez-N-Kleen, Mask-Off and 20/20.

4.25.3.3.3

Use automotive wax or finer grade rubbing compounds specifically for acrylic enamels and lacquer base paint.

4.25.3.3.4

Sand deep scratches first with 400 or finer wet sandpaper or OOOO grade steel wool. Finish with polish or rubbing compound.

4.25.3.3.5

Avoid the use of methyl ethyl ketone, acetone, ether, methylene chloride, and bleach.

4.25.3.4 CloneZone Reagent Chamber

4.25.3.4.1

Turn on the UV light for 30 to 45 minutes prior to use to decontaminate the work area. The light will automatically shut off after one hour or when the doors are opened.

4.25.3.4.2

Turn on the fluorescent light to illuminate the work area.

4.25.3.4.3

The unit has portholes on each side that will accommodate most plugs so that small equipment may be used in the chamber.

4.25.3.4.4

When finished working, make sure all doors are closed (sides and rear) and turn off both lights.

4.25.3.4.5

To hold the door open while working, attach yellow string to the doorpost.

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4.25.3.4.6

Clean the interior with soap and water or an acrylic cleaner. *DO NOT USE ALCOHOL.*

4.25.3.4.7

To change a bulb, unplug the power source. Lift off cover until electrical cord is visible. Unplug light cord to fully remove cover. Two people should perform this operation: one to hold the cover while the other unplugs the cord and helps to remove the lid. Place cover in upside down position. Locates and unscrew the four knurled screws attaching the two clear acrylic guards to the ceiling of the lid. Remove the two guards and replace the burned out bulbs, making sure that new bulbs match their fixtures (UV to UV, and Cool White to Cool White). Make sure bulbs are properly installed. Replace guards and knurled screws. Lift top over the unit and fasten light cord into plug. Replace cover.