









# CLEANING LASIK INSTRUMENTS – 7 STEPS

## Universal™ Quick Reference Guide: Cleaning Moria Microkeratomes and LASIK Surgical Instruments

<p>Step 1.</p> 	<p>1. At the mayo stand, break down the microkeratome head assembly into its component parts and place (completely submerge) them and your other LASIK instruments into a small bowl filled with sterile distilled water. This will prevent cellular debris and other contaminants from drying on the instruments and make them easier to clean.</p> <p><b>Note:</b> Place the used microkeratome blade back into its protective clamshell case and place it into the contaminated sharps container.</p>	<p>Step 2.</p>  <p>2. Take the microkeratome head assembly and the instruments into the cleaning area and transfer them into a bowl filled with the Diluted Universal™ Concentrated Surgical Instrument Cleaner and Lubricant.</p> <p>To allow the cleaning solution to work properly, the instruments should be completely submerged for a minimum of 2 minutes.</p>
<p>Step 3.</p> 	<p>3. Using a Visi-Plaque cleaning brush meticulously clean all surface areas of the microkeratome head assembly and suction ring.</p> <p>If your microkeratome manufacturer has supplied you with a Micro-Kleen tapered cleaning brush you should use this instrument to meticulously clean the internal / recessed areas of the microkeratome head. i.e. This is the area that the microkeratome blade is inserted and removed.</p>	<p>Step 3a.</p>  <p>3a. Check the suction ring port and handle for blockage by using a disposable syringe and tubing set to force clean distilled / filtered water to remove any cellular debris or contaminants. Rinse the lumens of the suction ring and handle for one (1) minute.</p> <p><b>Note:</b> Visually inspect all instruments for debris and damage. If an instrument is damaged remove it from the tray and send it out for service or repair.</p>
<p>Step 4.</p> 	<p>4. Transfer the cleaned instruments into the first rinse bowl. Using a second Visi-Plaque cleaning brush clean all surfaces of the microkeratome head assembly and the suction ring.</p> <p><b>Note:</b> Using a second Micro-Kleen brush meticulously clean the internal / recessed areas of the microkeratome head.</p>	<p>Step 5.</p>  <p>5. Transfer the cleaned instruments into the second rinse bowl. Copiously rinse all microkeratome parts and suction ring for a minimum of one (1) minute.</p> <p><b>Note:</b> On heavy surgical days you may wish to add a third rinse for all your surgical instruments.</p>
<p>Step 6.</p> 	<p>6. Place the clean instruments on a Duo-Cell™ lint free disposable instrument pad or a dry towel.</p> <p>Completely dry all instruments manually with a Duo-Cell™ lint free disposable instrument wipe or with microfiltered canned air.</p>	<p>Step 7.</p>  <p>7. Place all instruments into their protective tray, sterilize or store instruments.</p> <p><b>Note:</b> Visually inspect all instruments for debris and damage. If an instrument is damaged remove it from the tray and send it out for service or repair.</p> <p>Repeat all steps for cleaning the remaining instruments.</p>

**NOTE:** For other Cleaning Time-Lines as recommended for each Microkeratome, Please refer to your Microkeratome Owners Manual.

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## Universal™ Quick Reference Guide: Cleaning LASIK Surgical Instruments

The following is one method to use in cleaning your LASIK Instrumentation that many of our LASIK facilities follow in cleaning their equipment. I have provided this information for your review.

**Note:** Meticulous Cleaning of the Microkeratome Head Assembly, Suctions Rings and all Surgical Support Instruments will help ensure the removal of Bio-burdens, Bio-films and Contaminants from your equipment and instruments.

The Universal™ Cleaner is specially formulated to begin breaking down surface contaminants and cellular debris on contact with the solution. “No” specific time is required to clean your instruments. However, on average a standard LASIK Set of Instruments will take between 3 and 5 minutes to Meticulously Clean.

Please remember, “time is not the issue”, Meticulous Cleaning of the equipment and the instruments will remove debris, contaminants and maintain the highest levels of performance of the equipment.

1. At the mayo stand, break down the microkeratome head assembly into its component parts and place (completely submerge) them and your other LASIK instruments into a small bowl filled with sterile distilled water. This will prevent cellular debris and other contaminants from drying on the instruments and make them easier to clean.

2. Take the microkeratome head assembly and the instruments into the cleaning area and transfer them into a bowl filled with the Diluted Universal™ Concentrated Surgical instrument Cleaner and Lubricant.

**“To allow the cleaning solution to work properly, the instruments should be completely submerged for a minimum of 2 minutes.”**

**Note:** The Universal Cleaner is specially formulated to begin breaking down surface contaminants and cellular debris on contact with the solution. "On average a standard LASIK Set of Instruments will take between 3 and 5 minutes to Meticulously Clean.

3. Allow the head, suction ring and support instruments to become completely wet with the Universal Cleaner. Then, using a Visi-Plaque Blotter cleaning brush, meticulously clean all surface areas of the microkeratome head assembly and suction ring.

**Note:** As you are hand washing the instruments, visually inspect the head for surface debris, cellular debris and for damage on the surface of the metal and in the recessed areas of the head assembly.

Dip the microkeratome head and the Visi-Plaque Instrument cleaning brush into the cleaning solution several times (2 or 3) to insure that you are rewetting the head and rinsing off the loose debris as you are scrubbing the instrument.

**Note:** If your microkeratome manufacturer has supplied you with a Micro-Kleen tapered cleaning brush you should use this instrument to meticulously clean the internal / recessed areas of the microkeratome head. This will loosen and remove the debris and the contaminants from these recessed areas.

3a. In the first rinse bowl, check the suction ring port and handle for blockage by using a disposable syringe and tubing set to force Clean Distilled / Filtered Water through as necessary to clean. Then, rinse the lumen of the suction ring and handle for one 1 minute.

4. Then, transfer the cleaned microkeratome head into your first rinse bowl filled with clean, fresh, deionized / distilled water. Using a second (clean / new) set of Visi-Plaque and Micro-Kleen cleaning brushes, clean all surfaces of the microkeratome head assembly and the suction ring.

**Note:** Again, scrub the external surfaces of the microkeratome head and accessories with the larger brush and using the smaller tapered brush to meticulously clean the internal / recessed blade areas.

Swish the microkeratome head and the components parts under the surface of the water for a minimum of one (1) minute to remove any loosened debris. Visually inspect the microkeratome head for debris or damage.

5. Then, transfer the cleaned microkeratome head into your second rinse bowl filled with clean, fresh, deionized / distilled water. Copiously rinse (swish) all microkeratome parts and suction ring under the surface of the water for a minimum of one (1) minute to remove any remaining debris. Visually inspect the microkeratome head for debris or damage.

**Note:** On heavy surgical days you may wish to add a third rinse bowl for all your surgical instruments

6. Place the clean instruments on a dry towel or a Duo-Cell™ Bacteriostatic lint free disposable instrument pad. Then, completely dry all instruments manually with a Duo-Cell™ Bacteriostatic lint free disposable instrument wipe or with microfiltered canned air. Visually inspect the microkeratome head for debris or damage.

7. Then, place all cleaned and inspected instruments into their protective tray, sterilize or store instruments.

**Note:** Repeat all steps for cleaning the remaining instruments.

**Caution:** To avoid the risk of cross contaminating your surgical instruments, “always dispose of all cleaning supplies immediately after every use.” It is never recommended to reuse any cleaning products for multiple instrument sets.

Please remember, “time is not the issue”, the Meticulous Cleaning of the equipment and the instruments will remove debris, contaminants and maintain the highest levels of performance of the equipment.