

Using the Oxygen Plasma Machine

1. Turn on the O₂ (g) valve on the wall.
2. Turn on the O₂ inlet valve on the front of the machine just a tiny-bit – O₂ should now be leaking through the black, chamber door.
3. Turn on the pump. To help the pump get a seal, press the door of the chamber in for a few seconds when the pump is first started. Note: You only need to turn the Pump “On” using the switch on the Oxygen Plasma Machine – you do NOT need to turn the Pump On/Off manually using the switches on the Pump itself.
4. Allow the system to equilibrate for at least 10 minutes
5. At the same time, turn the Power switch “On” to warm up the electronics. Do NOT turn on the Plasma (the black knob at the top-right of the machine), just the Red Power Switch.
6. Turn off the O₂ valve on the chamber door. At the same time, turn on the Plasma to the “High” setting.
7. The plasma will take anywhere from 5-30 seconds to actually appear – it should be dim purple in color and will be somewhat hard to see. After the Plasma has run for 10 seconds, turn it off.
8. Open up the O₂ valve on the chamber, turn off the Pump. In less than a minute, the chamber door should open.
9. If finished using the machine, turn off the Power and turn off the O₂ (g) valve on the wall.

Trouble-shooting

*If the plasma appears bright pink, then air is in the system. Try letting the system sit at equilibrium (Steps 4 and 6) longer. If this does not work, there may be a leak in the tubing or the pump is too weak.

*If you turn on the knob and there is no plasma at all, let the electronics warm up longer.

*If your sample does not seem affected by the plasma, you may not have placed it in the center of the chamber – the plasma cloud is most concentrated at the center of the chamber, and may not always reach the edges of it.