



Piranha solution preparation and use.

1. All procedure to be done in Acid Hood. Personal protective equipment (apron, thick rubber gloves, face shield) is MUST.
2. No plastic dishes allowed.
3. Ensure the dishes are clean from organic material. Check for no chipping/cracks in the dishes.
4. Mix sulfuric acid with hydrogen peroxide in ratio 3:1 by volume.
 - Measure 75 ml of sulfuric acid (H_2SO_4) and transfer to chemical glass.
 - Add 25 ml hydrogen peroxide (H_2O_2) to the acid very slowly to prevent overheat of the solution, never in reverse!
5. Wait for 20 min to let Piranha cool down.
6. Immerse your substrates in Piranha. Ensure NO EXCESSIVE organic material on your sample, only residues are allowed.
7. Wait for 10 to 40 min, depending on your process.
8. Remove your substrates from the Piranha solution.
9. Wash thoroughly with water. Be careful not to splash the water to Piranha.
10. Transfer the used Piranha solution to Piranha waste bottle. DO NOT close the bottle tightly.