

SYSTEM RESET SOP

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SOP #1

1. Start by removing any product in the system along with all old solvent and molsieve.
2. Replace all paper or sintered disc filtration and new mol sieve and assemble machine for a clean run
3. Add roughly 5 lbs solvent direct gas and begin cleaning
4. Do the cleaning in stages to remove unwanted contaminant as best as possible without contaminating as much clean gas as possible
5. With warm gas run over the whole system and recover down to about 100 to 200 mls of solvent. Pour off and set next to fume hood in c1d1
6. Repeat steps 2-5 2 or 3 times then empty solvent tank into a tank marked as dirty
7. Break down the whole machine wipe down with kim wipes and distilled water. Allow to dry thoroughly then reassemble with new filters and mol sieve. Top off machine with fresh clean solvent and

SOP #2

1. Empty System - After finishing the last run, completely remove all product from collection, biomass and socks from material columns, and media and filter papers from crc column. Leave gas in solvent tank for next step.
2. Flush - Run warm solvent through entire system
3. Remove Gas - Transfer gas from CLS solvent tank to an external tank clearly marked as used solvent. Ensure entire CLS has been relieved of pressure.
4. Disassemble - Remove all hoses, valves, and tri-clamp fittings. Disassemble valves for cleaning. Disassemble CRC column if present. Remove sintered disks if present. Disassemble and empty molsieve column if present.
5. Wipe / Soak #1 with Pentane - Wipe down all accessible areas with clean rags and pentane. Soak small parts that can't be wiped, and scrub with brushes where possible. Run pentane through hoses. Soak and rinse sintered disc in pentane.
6. Dry - Allow parts to air dry. Air or nitrogen can be blown through hoses to speed evaporation. Blow air or nitrogen through sintered disk.
7. Wipe / Soak #2 with Isopropyl Alcohol - Wipe down all accessible areas with clean rags and isopropyl. Soak small parts that can't be wiped, and scrub with brushes where possible. Run isopropyl through hoses. Soak and rinse sintered disc in isopropyl, then place into sonicator if one is available.
8. Dry - Allow parts to air dry. Air or nitrogen can be blown through hoses to speed evaporation. Blow air or nitrogen through sintered disk.
9. Wipe / Soak #1 with Water (Distilled or Reverse Osmosis Deionized) - Wipe down all accessible areas with clean rags and water. Soak small parts that can't be wiped, and scrub with brushes where possible. Run water through hoses. Soak and rinse sintered disc in water. Rinse sintered disk with isopropyl to help displace water.
10. Dry - Allow parts to air dry. Air or nitrogen can be blown through hoses to speed evaporation. Blow air or nitrogen through sintered disk. Dry sintered disc in oven. Parts may need to be dried overnight in a warm, low humidity environment.
11. Reassemble - Fully reassemble system, adding fresh molsieve if molsieve column is present. Pull vac to evacuate atmosphere, then observe system for leaks. Pressure test with nitrogen. Pull vac to ready system for fresh solvent.