

## Plunge Freezer Independence Checklist

### Startup (user is able to locate):

- Safety Equipment- goggles, lab coat, gloves, masks
- [On] Switch
- Ethane Tank
- Liquid Nitrogen
- Plasma Cleaner
- Drawer Accessory Tools – pipette & tips, silver platform, tweezers, blot paper, magnets, screwdriver
- Fume Hood – holder & cup inserts
- Distilled water

### Usage:

- Filling humidifier
- Inserting filter paper
- Cooling equipment with liquid nitrogen
- Dispense ethane - wearing goggles
- Using interface/changing settings of the plunge freezer – blot time, blot force, tweezer rotation, etc.
- Operating foot pedal (Vitrobot)
- Dispense sample through sample slot
- Aware of common error messages
  - Refill humidifier or liquid nitrogen
  - Change blot paper
- Aware of common malfunctions
  - Improperly aligned tweezers
- Knows to notify EMG staff
- Aware of rules
  - Cannot refill liquid nitrogen after 5PM
  - Vacate room when the oxygen alarm sounds

### Shutdown:

- Emptying humidifier
- Removing filter paper
- Leaving chamber door open
- Discarding remaining liquid nitrogen
- Returning all accessory materials to their designated areas
- Cleaning any bench top waste from their session
- [Off] Switch
- Bake Out (Leica)
  - Aware that the bakeout takes ~ 2 hours

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