

Small Batch D

Materials:

100g *Mimosa hostilis* root bark (MHRB)

100ml 5% White Vinegar (CH_3COOH)

75g (1/2 cup) Calcium Hydroxide $\text{Ca}(\text{OH})_2$ "Pickling Lime"

100ml Naphtha VM+P



Equipment:

large glass container
small glass container
glass baking sheet
mixing spoon
kettle
coffee grinder
coffee filters
razor blades



Preparation:

1. Grind MHRB into powder and place it into the small glass container.



Acidification:

1. Add White Vinegar to the MHRB and stir until the MHRB is wet, red, and clumpy.
2. Slowly and while stirring, add ~100ml near-boiling water to the MHRB. Add and stir until it is wet enough to flow when you tip the container from side to side.
3. Allow to sit for 40 minutes, stirring occasionally.



Basification:

1. Slowly and while stirring, add Calcium Hydroxide to the MHRB. Stir until the Calcium Hydroxide is thoroughly mixed and the MHRB is no longer red. Add very small amounts of water if needed to achieve a moist and consistent mixture like thick oatmeal, if it's too dry add more water, if it's too wet add more Calcium Hydroxide.
2. Allow to sit for 1 hour (optional).



Non-Polar Wash:

1. Put the small glass container into the large glass container and add enough boiling water to the large container to match the level of the MHRB in the small container.
2. Add Naphtha to the MHRB so that you can see it on the sides and stir thoroughly. The Naphtha should stay completely separate from the MHRB and remain transparent.
3. Allow to sit for 10 minutes, stirring occasionally.



Crystallization:

1. Remove the small container from the large container and dry off the bottom.
2. Pour off the Naphtha from the MHRB through the coffee filter into the glass baking sheet, it is okay if you do not get all of it.
3. Place the glass baking sheet in the freezer for ~12 hours.
4. Cover and store the MHRB.
5. Remove the glass baking sheet from the freezer and pour off the Naphtha through the coffee filter into a container for re-use or discard.
6. Allow the remaining Naphtha to evaporate at room temperature and scrape off the crystals using the razor blade. The crystals are ready for use when they no longer smell like Naphtha.



Future Pulls:

1. Repeat the Non-Polar Wash and Crystalization steps on the stored MHRB in increasing intervals (e.g. 24 hrs, 72 hrs, 1 week).