

# CRYSTALLIZATION

## Step by Step Process

### STEP 1 : Sterilizing your equipment and preparing your structure



Create the “apparatuses” necessary for hanging or supporting your structure.

In this example you see a laser cut wooden circle with holes

Place your structure making sure that it does not touch the bottom or the sides

## Step by Step Process for crystallization

### STEP 2

1 lt of distilled water  
400 gr of Alum

Heat the distilled water to a boil



Add the 400 grams of Alum and stir until it dissolves completely in the water.



Illustration by Florencia Moyano, Fabricademy 2021-22

## Step by Step Process for crystallization

### STEP 2



In our container where we will grow the crystals, we put a laboratory filter to filter all the small impure crystals that could have remained in our mixture.

Wait for the liquid to be completely filtered

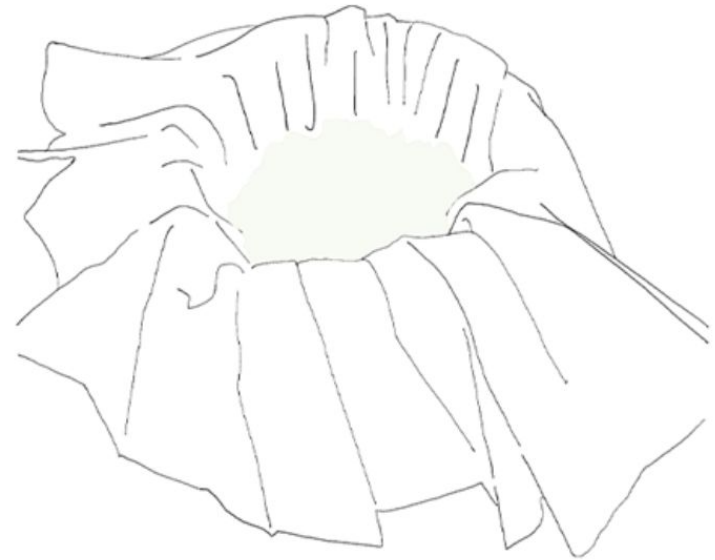
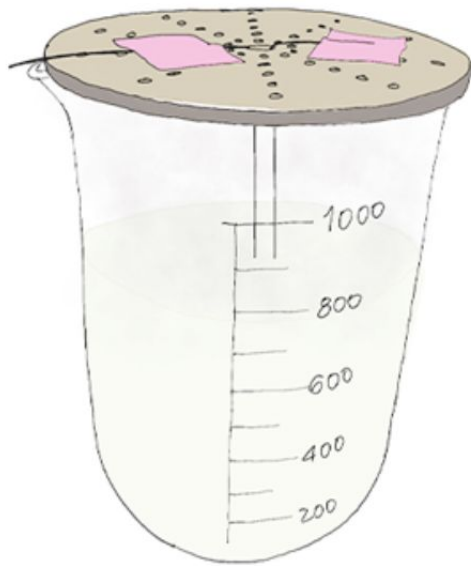


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# Step by Step Process for crystallization

## TIPS and TRICKS



Evaluate your results,  
reheat if needed!

### **My crystals are too small!**

This means that the mix cooled down very quickly!

### **My crystals are too big!**

Crystals that grow more slowly, tend to be **larger**. For crystals that were grown by slow cooling of the solvent: it usually improves the quality and size of the crystals.

### **My crystals are not transparent!**

Put the base with your structure  
and let the crystals grow!  
Place some weight on the bottom of  
your structure to hold it down.