

Colloidal Copper Cyan-Green 500mL Lab Sheet

Date:

Batch #

Create Stock Solutions (*these can be reused for future*):

- Stock Solution Sodium Citrate: 7.35g in 500 mL distilled water (15mg sodium citrate per 1 mL solution if you want to make less).
- Stock Solution Citric Acid: dissolve 13g citric acid in 200 ml water. Or you can slowly add the powder, a few grains at a time, if you don't want to make this solution.

500mL distilled water. (No heat needed)

copper cathode

Anode: carbon | copper (preferred)

Power Supply → 24 to 38v.

Set Stirrer → 350 to 500 rpm.

drip Citrate Acid (or slowly add the powder) until 15~20mA current draw is reached.

wait 30 min then add 10 mL Sodium Citrate solution that you prepared.

cook until cyan-green color is reached. (About 60 min)

<i>ppm = parts per million /start-finish = weight of cathode</i>						
	cathode Start weight	cathode Finish weight	minutes	mg material	ppm	scope
1 →						
2 →						
3 →						

NOTES:

Cook to desired cyan-green depth, about 60 min total.