Colloidal Gold Lab Sheet (LVDC)

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Batch #

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

- Stock Solution NaCl: 1.5g NaCl in 500 mL distilled water (3 mg NaCl per 1 mL of solution).
- Stock Solution Sodium Citrate: 7.35g in 500 mL distilled water (15 mg per 1 mL solution).
- Corn Syrup: 30ml of Corn Syrup with 20mL distilled water, Put in eye dropper bottle.

	500mL distilled water heated → 90°c.
	Cathode Gold
Ano	de: \square gold \square copper (preferred)
	Power Supply → 24v to 38v.
	8 drops of light corn syrup.
	40 mL stock NaCl (Salt or Sea Salt, No Iodine).
	10 mL stock Sodium Citrate.
	Set Stirrer → 500 - 600 rpm.

sppm = scope ppm / mA = milliamp / mg=milligram / ppm = parts per million /start-finish = weight of cathode									
	cathode start weight	cathode finish weight	minutes	mg	ppm	scope	mA	color	type
1									□ 24k □ 14k
2									□ 24k □ 14k
3									□ 24k □ 14k
4									□ 24k □ 14k
5									□ 24k □ 14k
6									□ 24k □ 14k

Notes:

• 24k creates ruby red gold, 14k will create a grey/bluish gold.