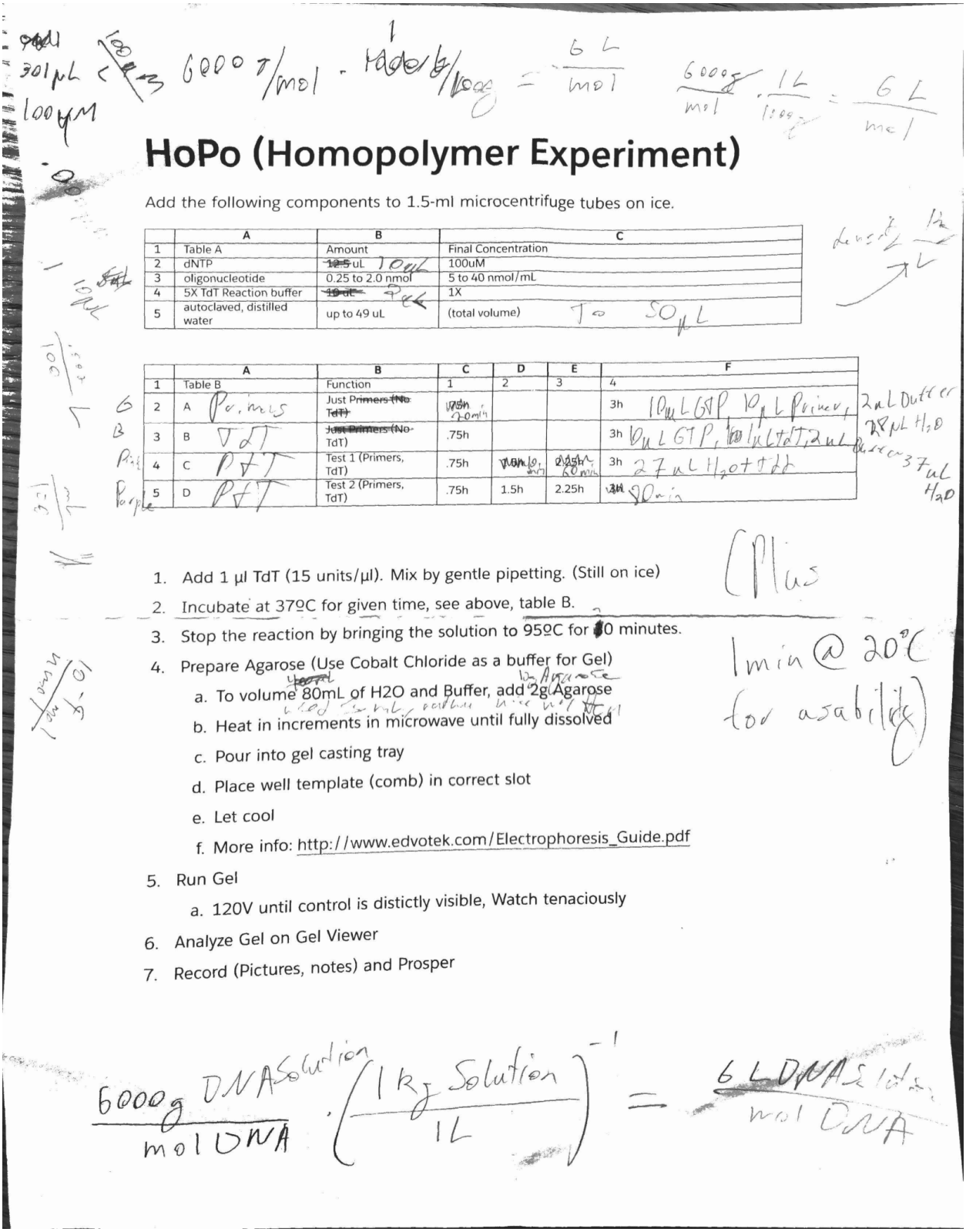
HoPo1 Lab Notes Scan



HoPo (Homopolymer Experiment)

Add the following components to 1.5-ml microcentrifuge tubes on ice.

	A	B	C
1	Table A	Amount	Final Concentration
2	dNTP	~~12.5~~ uL	100uM
3	oligonucleotide	0.25 to 2.0 nmol	5 to 40 nmol/mL
4	5X TdT Reaction buffer	~~10 uL~~	1X
5	autoclaved, distilled water	up to 49 uL	(total volume)

	A	B	C	D	E	F
1	Table B	Function	1	2	3	4
2	A	Just ~~Primers (No TdT)~~	.75h			3h
3	B	~~Just Primers (No TdT)~~	.75h			3h
4	C	Test 1 (Primers, TdT)	.75h	1.5h	2.25h	3h
5	D	Test 2 (Primers, TdT)	.75h	1.5h	2.25h	3h

1. Add 1 µl TdT (15 units/µl). Mix by gentle pipetting. (Still on ice)
2. Incubate at 37ºC for given time, see above, table B.
3. Stop the reaction by bringing the solution to 95ºC for 10 minutes.
4. Prepare Agarose (Use Cobalt Chloride as a buffer for Gel)
   a. To volume 80mL of H2O and Buffer, add 2g Agarose
   b. Heat in increments in microwave until fully dissolved
   c. Pour into gel casting tray
   d. Place well template (comb) in correct slot
   e. Let cool
   f. More info: http://www.edvotek.com/Electrophoresis_Guide.pdf
5. Run Gel
   a. 120V until control is distictly visible, Watch tenaciously
6. Analyze Gel on Gel Viewer
7. Record (Pictures, notes) and Prosper