

ChE 126: Chemical Engineering (Remote Learning) Laboratory, Fall 2020
Parts List/Packing Slip: DIY Microfluidics

Item	Qty	Attribute/Use	Item ^A	Cost ^B
General Supplies				
1	1	Safety	VWR Protective Eyewear with Adjustable Temples, Black Frame	\$7.12
2	1	Safety	VWR Visitor Specs	\$3.22
3	2	General	Tweezers, 12cm black plastic	\$3.52
4	1	General	X-Acto X2000 No-Roll Rubber Barrel Knife	\$8.27
5	1 pk	General	Rulers, Metal, 6" (pkg of 3, including metric & English markings)	\$5.46
6	1 pk	General	Sharpie Pens (black fine point ; blue ultra fine point ; red chisel tip)	\$2.20
7	1	Presentations	Logitech - H390 USB Headset with Noise-Canceling Microphone - Black	\$32.99
DIY Microfluidics Manufacturing – Multiple Options				
8	1	General	Microscope slide holder	\$5.69
9	12	General	Microscope slides : inside holder	\$1.82
10	1 kit	Substrate/Mold	Aneco; 10 Heat Shrink Sheets, 12 Colored Pencils, more (Shrinky Dinks)	\$10.94
11	1	Mold	Adhesive Tape, Single-Sided	\$2.00
12	1	Mold	Adhesive Tape, Double-Sided	\$3.50
13	2	Mold	Flat Wire, 0.015" W x 0.036" H x 14" L, stainless steel	\$3.90
14	1 pk	Mold	Polystyrene Rods, 0.01" OD x 10" L (qty: 10)	\$4.35
15	2	Substrate/Mold	Crayola Model Magic (air-dry clay), white, 4oz	\$8.19
16	2	Substrate	Elmer's School Glue, 8oz	\$2.35
17	3 oz	Substrate	Gelatin, unflavored	\$2.26
18	1	Substrate	Agar Agar, 4oz	\$9.99
19	1	Substrate	Soap Making Kit	\$14.02
20	1	Substrate	Candle Making Kit (includes SS pouring pot, thermometer, wax, tins + more)	\$24.08
DIY Microfluidics Inspection (DIY Microscope Supplies)				
21	2	Lens	Recovered from SF-HD63 HD63 laser lens for XBOX 360 Samsung TS-H943 Toshiba TS-H943 DVD drive	\$9.09
22	5	Lens Holder	Bobby pins	\$0.27
23	2	Illuminator	Flashlight, 6 LED (SCREW OFF REAR CAP, REMOVE INSULATED SHEET BEFORE USING)	\$5.47
24	1	Calibration	Micrometer Calibration Slide, 0.1mm	\$10.39
25	1	Calibration	Micrometer Calibration Slide, 0.01mm	\$10.83
DIY Microfluidics Testing				
26	1 pk	Testing & Viz	Food coloring (1oz each red, blue, green, yellow)	\$3.81
27	10	Fluid Addition	Syringe, 1ml with Luer slip tip	\$1.10
28	1 bg	Fluid Flow	Polyester Cellulose Wipes, 7"x7", 300 wipes/bag	\$10.94
TOTAL				\$207.77

NOTE A: Short description of each item, with links to URL whenever possible.

NOTE B: Unit cost includes CA sales taxes and, when relevant, shipping & handling. Costs listed in table may differ from costs listed on linked website, because of sales, discounts, Caltech corporate rates, price fluctuations, etc. Assumes Amazon Prime membership for free shipping for Amazon purchases. Some non-Amazon purchases had no shipping charges because of coupons, exceeding minimum purchase amounts, in-person pickup, etc.