

ACIDS								
#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0161869	Hydrochloric Acid 37%	HCl	ACS Reagent	350ml	Aldrich	7647-01-0	25814-8
2	C0161868	Hydrochloric Acid	HCl	Certified ACS Plus	500ml	Fisher Scientific	7647-01-0	A144-500
3	C0161867	Nitric Acid 70%	HNO <sub>3</sub>	ACS Reagent	300g	Aldrich	7697-37-2	25811-3
4	C0193041	Hydrochloric Acid 37%	HCl	ACS Reagent	2.5L	Aldrich	7647-01-0	435570
5	C0193556	Hexanoic Acid	C <sub>5</sub> H <sub>12</sub> O <sub>2</sub>		100g	Aldrich	142-62-1	153745
6	C0193555	Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	Certified ACS Plus	2.5L	Fisher Scientific	7664-93-9	A300-212
7	C0269689	Hydrochloric Acid, 0.2M solution in water	HCl		500ml	Aldrich	7647-01-0	343102
8	C0268566	Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	Certified ACS Plus	2.5L	Fisher Scientific	7664-93-9	A300-212
9	C0268567	Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	Certified ACS Plus	2.5L	Fisher Scientific	7664-93-9	A300-212
10	C0193554	Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	Certified ACS Plus	2.5L	Fisher Scientific	7664-93-9	A300-212
11	C0193553	Sulfuric Acid	H <sub>2</sub> SO <sub>4</sub>	Certified ACS Plus	2.5L	Fisher Scientific	7664-93-9	A300-212
12	C0193735	Phosphoric Acid, >85 wt. % solution in water	H <sub>3</sub> PO <sub>4</sub>	ACS Reagent	100ml	Sigma-Aldrich	7664-38-2	695017
13	C0193736	Nitric Acid 70%	HNO <sub>3</sub>	ACS Reagent	100ml	Sigma-Aldrich	7697-37-2	695033
14	C0193739	Zirconium Acetate, solution in dilute acetic acid			500ml	Aldrich	7585-20-8	413801

**CARCINOGENS**

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0193076	Chloroform	CHCl <sub>3</sub>	ACS Reagent	500ml	Aldrich	67-66-3	472476
2	C0193546	Hydrazine Hydrate	H <sub>4</sub> H <sub>2</sub> xH <sub>2</sub> O		250g	Aldrich	10217-52-4	225819
3	C0268218	Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>		1L	Aldrich	107-21-1	102466
4	C0193078	Chloroform	CHCl <sub>3</sub>	HPLC Grade/ACS	4L	Fisher Scientific	67-66-3	C606-4
5	C0268834	Potassium Chloride solution 4M saturated with Silver Chloride	KCl, AgCl		2 fl. Oz.	Fisher Scientific		SP135-500
6	C0193702	Chloroform	CHCl <sub>3</sub>	HPLC Grade/ACS	4L	Fisher Scientific	67-66-3	C606-4
7	C0193703	Chloroform	CHCl <sub>3</sub>	HPLC Grade/ACS	4L	Fisher Scientific	67-66-3	C606-4
8	C0193079	Chloroform	CHCl <sub>3</sub>	HPLC Grade/ACS	4L	Fisher Scientific	67-66-3	C606-4
9	C0193023	Potassium Chloride solution 4M saturated with Silver Chloride	KCl, AgCl		2 fl. Oz.	Fisher Scientific		SP135-500

**CORROSIVES**

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0193042	Titanium (IV) Chloride 99.9%	TiCl <sub>4</sub>	ReagentPlus	200g	Aldrich	7550-45-0	208566
2	C0193073	Acetic acid	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>		100ml	Sigma-Aldrich	64-19-7	A6283
3	C0193074	Titanium (III) Chloride, ca. 10wt.% solution in 20-30 wt.% hydrochloric acid	TiCl <sub>3</sub>		500ml	Sigma-Aldrich	7705-07-9	249998
4	C0193075	Zirconium acetate, solution in dilute acetic acid	Zr(AC) <sub>4</sub>		2L	Sigma-Aldrich	7585-20-8	413801
5	C0269687	Potassium Phosphate		Reagent	1L	Sigma	7778-77-0	P8709
6	C0269688	Sodium Hydroxide, 0.1M solution in water	NaOH		500ml	Aldrich	1310-73-2	319481
7	C0193560	Ammonium Hydroxide	NH <sub>4</sub> OH	ACS Reagent	500ml	Sigma-Aldrich	1336-21-6	221228
8	C0193559	Hexylamine	C <sub>6</sub> H <sub>15</sub> N		100ml	Aldrich	111-26-2	219703
9	C0193734	Ammonium Hydroxide	NH <sub>4</sub> OH	ACS Reagent	100ml	Sigma-Aldrich	1336-21-6	221228

**CORROSIVE POWDERS**

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0193032	Ruthenium(III) Chloride Anhydrous	Cl <sub>3</sub> Ru		1g	Fluka	10049-08-8	84040
2	C0268832	Sodium Hydroxide	NaOH	Certified	1kg	Fisher Scientific	1310-73-2	S318-1
3	C0268867	Sodium Hydroxide, Pellets 97+%	NaOH	ACS Reagent	500g	Aldrich	1310-73-2	221465
4	C0193043	Zirconium (IV) Chloride 99.5%	ZrCl <sub>4</sub>		100g	Aldrich	10026-11-6	221880
5	C0193044	Zirconium (IV) Chloride 99.5%	ZrCl <sub>4</sub>		100g	Aldrich	10026-11-6	221880
6	C0193057	Potassium Hydroxide	KOH	ReagentPlus	500g	Sigma-Aldrich	1310-58-3	P5958
7	C0193058	Silver Nitrate	AgNO <sub>3</sub>	ReagentPlus	100g	Sigma-Aldrich	7761-88-8	S6506
8	C0193060	Sodium Hydroxide Pellets	NaOH	ACS Reagent	500g	Riedel-de Haen	1310-73-2	30620
9	C0193033	Sodium Hydroxide Pellets	NaOH		500g	EM Science	1310-73-2	0064825B
10	C0193558	Sodium Hydroxide, Pellets 97+%	NaOH	ACS Reagent	25g	Sigma-Aldrich	1310-73-2	221465
11	C0193557	Gold(III) Chloride Trihydrate	HAuCl <sub>4</sub> 3H <sub>2</sub> O		1g	Sigma-Aldrich	16961-25-4	520918
12	C0193711	Zirconyl Nitrate Hydrate	ZrO(NO <sub>2</sub> ) <sub>3</sub> xH <sub>2</sub> O	Technical	100g	Aldrich	14985-18-3	346462
13	C0193712	Zirconyl Chloride Octahydrate 98%	ZrOCl <sub>2</sub> x8H <sub>2</sub> O	Reagent	100g	Sigma-Aldrich	13520-92-8	224316
14	C0193743	Sodium Hydroxide	NaOH	Reagent	500g	Sigma-Aldrich	1310-73-2	S5881
15	C0193744	Potassium Hydroxide	KOH	SigmaUltra	250g	Sigma-Aldrich	1310-58-3	P5958
16	C0193088	Potassium Hydroxide, flakes, >90%	KOH	Reagent	1kg	Sigma-Aldrich	1310-58-3	484016
17	C0193089	Potassium Hydroxide, pellets, 99.99%	KOH	Semiconductor	100g	Sigma-Aldrich	1310-58-3	306568

## FLAMMABLE LIQUIDS

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
38	C0268854	Acetic Acid	CH <sub>3</sub> COOH		25ml		64-19-7	A6283
19	C0193081	Acetone	CH <sub>3</sub> COCH <sub>3</sub>	Certified ACS	4L	Fisher Scientific	67-64-1	A-18-4
40	C0193706	Acetone	CH <sub>3</sub> COCH <sub>3</sub>	Certified ACS	4L	Fisher Scientific	67-64-1	A-18-4
59	C0193087	Acetone	CH <sub>3</sub> COCH <sub>3</sub>	Certified ACS	4L	Fisher Scientific	67-64-1	A-18-4
60	C0193102	Butane Fuel (Isobutane)	C <sub>4</sub> H <sub>10</sub>		2.75oz	Ronson Corp	75-28-5	
37	C0268853	Dibutyltin dilaurate 95%	C <sub>32</sub> H <sub>64</sub> O <sub>4</sub> Sn			Aldrich	77-58-7	291234
30	C0268815	Dichloromethane	CH <sub>2</sub> Cl <sub>2</sub>		100ml	Aldrich	75-09-2	34856
32	C0268807	Dodecane	C <sub>12</sub> H <sub>26</sub>		100ml	Aldrich	112-40-3	297879
33	C0268810	Dodecanethiol	C <sub>12</sub> H <sub>26</sub>		500g	Acros Organics	112-55-0	409235000
27	C0268809	Dulbecco's Phosphate Buffered Saline		(Exp. 7/06)	1000ml	Gibco	14190-136	14190-136
54	C0193737	Ethanol, absolute 200 proof >99.5%	C <sub>2</sub> H <sub>6</sub> O	ACS Reagent	4L	Sigma-Aldrich	64-17-5	459844
34	C0268850	Ethyl Acetate	C <sub>4</sub> H <sub>8</sub> O <sub>2</sub>		1L	Asia Pacific	141-78-6	04-001-0
18	C0268568	Ethyl Alcohol		(Denatured)	500ml	Fisher Scientific		A407-500
41	C0193035	Ethyl Alcohol		(Denatured)	500ml	Fisher Scientific	64-17-5	A407-500
20	C0268806	Glutaric Dialdehyde 25 wt. % solution in water	C <sub>5</sub> H <sub>8</sub> O <sub>2</sub>		25g	Aldrich	111-30-8	G4004
42	C0193036	Glycerin		USP/FCC	1L	Fisher Scientific	56-81-5	G31-1
28	C0268813	n-Heptane	C <sub>7</sub> H <sub>16</sub>		4L	Fisher Scientific	142-82-5	H350 <sup>SK</sup> -4
8	C0161870	n-Hexadecane 99%	C <sub>16</sub> H <sub>34</sub>		475ml	Acros Organics	544-76-3	120465000
48	C0193544	Hexanal	C <sub>6</sub> H <sub>12</sub> O	(in freezer)	25ml	SAFC	66-25-1	35396MH
1	C0193066	Hexane	C <sub>6</sub> H <sub>14</sub>	ACS Reagent	500ml	Sigma-Aldrich	110-54-3	139386
17	C0193025	n-Hexane	C <sub>6</sub> H <sub>14</sub>	Spectranal	2.5L	Riedel-de Haen	110-54-3	34913
13	C0269690	Hydrogen Peroxide, 30 wt. % solution in water	H <sub>2</sub> O <sub>2</sub>	ACS Reagent	100ml	Sigma-Aldrich	7722-84-1	216763
52	C0193727	Lithium Ethoxide, 1.0M solution in ethanol	LiC <sub>2</sub> H <sub>5</sub> O		100ml	Aldrich	2388-07-0	400246
2	C0193067	3-Mercaptopropyl-trimethoxysilane	C <sub>6</sub> H <sub>16</sub> O <sub>3</sub> SSi	Purum	100ml	Fluka	4420-74-0	63800
16	C0193080	Methanol	CH <sub>3</sub> OH	Spectranal	4L	Fisher Scientific	67-56-1	A408-4
26	C0193705	Methanol	CH <sub>3</sub> OH	Spectranal	4L	Fisher Scientific	67-56-1	A408-4
50	C0193082	Methanol	CH <sub>3</sub> OH	Spectranal	4L	Fisher Scientific	67-56-1	A408-4
7	C0161824	Methylene Chloride	CH <sub>2</sub> Cl <sub>2</sub>	Certified ACS	300ml	Fisher Scientific	75-09-2	D37-500
36	C0268854	Methyltrimethoxysilane 95%	CH <sub>3</sub> Si(OCH <sub>3</sub> ) <sub>3</sub>		250ml	Sigma	185-55-3	
9	C0161871	n-Octane 97%	C <sub>8</sub> H <sub>18</sub>		2.25L	Acros Organics	111-65-9	325950025
21	C0268805	Perfluorodecalin (mix. Of cis & trans 95%)	C <sub>10</sub> F <sub>18</sub>		2.5g	Acros Organics	306-94-5	130040050
4	C0193069	2-Propanol	C <sub>3</sub> H <sub>8</sub> O	ACS Reagent	2L	Sigma-Aldrich	67-63-0	190764
55	C0193083	2-Propanol	C <sub>3</sub> H <sub>8</sub> O	ACS Reagent	4L	Sigma-Aldrich	67-63-0	190764
56	C0193084	2-Propanol	C <sub>3</sub> H <sub>8</sub> O	ACS Reagent	4L	Sigma-Aldrich	67-63-0	190764

57	C0193085	2-Propanol	C <sub>3</sub> H <sub>8</sub> O	ACS Reagent	4L	Sigma-Aldrich	67-63-0	190764
58	C0193086	2-Propanol	C <sub>3</sub> H <sub>8</sub> O	ACS Reagent	4L	Sigma-Aldrich	67-63-0	190764
3	C0193068	2-Propanol, anhydrous 99.5%	C <sub>3</sub> H <sub>8</sub> O		1L	Sigma	67-63-0	278475
10	C0268246	Reagent Alcohol		(Denatured)	3.75L	Fisher Scientific	64-17-5	A962 <sup>P</sup> -4
43	C0193037	Reagent Alcohol 100%		(Exp. 9/08)	4L	Fisher Scientific		A962 <sup>P</sup> -4
22	C0193552	Reagent Alcohol 70% (v/v)		(Denatured)	4L	Ricca Chemical		2546.70-1
23	C0193551	Reagent Alcohol 70% (v/v)		(Denatured)	4L	Ricca Chemical		2546.70-1
29	C0268808	Sodium Silicate	SiO <sub>2</sub> /Na <sub>2</sub> O		500ml	PQ Corporation	134-40-98	
35	C0268851	Tetraethoxysilane	C <sub>8</sub> H <sub>20</sub> O <sub>4</sub> Si			Sigma	78-10-4	
51	C0193718	Tetraethyl Orthosilicate 98%	C <sub>4</sub> H <sub>12</sub> O <sub>4</sub> Si	ReagentPlus	500ml	Aldrich	78-10-4	131903
39	C0268227	Tetraethyl Orthosilicate 99+%	C <sub>4</sub> H <sub>12</sub> O <sub>4</sub> Si		50ml	Aldrich	78-10-4	236209
44	C0193038	Tetraethyl Orthosilicate 99+%			25g	Aldrich	681-84-5	341436
14	C0268216	Tetrahydrofuran, anhydrous 99.9%	C <sub>4</sub> H <sub>8</sub> O		5ml	Acros Organics	109-99-9	61045-1000
15	C0268217	Tetrahydrofuran, anhydrous 99.9%	C <sub>4</sub> H <sub>8</sub> O		100ml	Acros Organics	109-99-9	61045-1000
45	C0193039	Titanium(IV) isopropoxide 97%	Ti[OCH(CH <sub>3</sub> ) <sub>2</sub> ] <sub>4</sub>		500ml	Aldrich	546-68-9	205273
47	C0193549	Titanium(IV) isopropoxide 97%	Ti[OCH(CH <sub>3</sub> ) <sub>2</sub> ] <sub>4</sub>		500ml	Aldrich	546-68-9	205273
53	C0193729	Titanium(IV) Isopropoxide 97%	Ti[OCH(CH <sub>3</sub> ) <sub>2</sub> ] <sub>4</sub>		500ml	Aldrich	546-68-9	205273
6	C0193071	Titanium(IV) isopropoxide, 97%	Ti[OCH(CH <sub>3</sub> ) <sub>2</sub> ] <sub>4</sub>		500ml	Sigma-Aldrich	546-68-9	205273
12	C0161826	Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub>	Certified ACS	300ml	Fisher Scientific	108-88-3	T324-500
24	C0268804	Toluene	C <sub>7</sub> H <sub>8</sub>	Puriss.	250ml	Fluka	108-88-3	89677
25	C0268803	Toluene	C <sub>7</sub> H <sub>8</sub>	Puriss.	250ml	Fluka	108-88-3	89677
31	C0268802	Toluene	C <sub>6</sub> H <sub>5</sub> CH <sub>3</sub> ,		100ml	Aldrich	108-88-3	270377
5	C0193070	Toluene, 99.5%	C <sub>7</sub> H <sub>8</sub>	ACS Reagent	500ml	Sigma-Aldrich	108-88-3	179418
11	C0193072	Triethylamine, 99.5%	C <sub>6</sub> H <sub>15</sub> N	ReagentPlus	100ml	Aldrich	121-44-8	471283
46	C0193040	Zirconium(IV) propoxide, 70wt% solution 1-propanol	C <sub>12</sub> H <sub>28</sub> O <sub>4</sub> Zr		500ml	Aldrich	23519-77-9	333972

## POWDERS

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
33	C0161789	Alumina Powder	Al <sub>2</sub> O <sub>3</sub>		20g	Good Fellow		
58	C0193048	Aluminum nitrate nonahydrate	Al(NO <sub>3</sub> ) <sub>3</sub> ·9(H <sub>2</sub> O)	ACS Reagent	5kg	Sigma-Aldrich	7784-27-2	237973
32	C0193026	Aluminum Oxide, alpha 99.98%	Al <sub>2</sub> O <sub>3</sub>		250g	Alfa	1344-28-1	35839
46	C0193049	Ammonium cerium(IV) nitrate	(NH <sub>4</sub> ) <sub>2</sub> Ce(NO <sub>3</sub> ) <sub>6</sub>	ACS Reagent	500g	Sigma-Aldrich	16774-21-3	215473
47	C0193050	Ammonium iron(III) citrate	C <sub>6</sub> H <sub>8</sub> O <sub>7</sub> FeH <sub>3</sub> N		500g	Sigma-Aldrich	1185-57-5	F5879
20	C0193569	Ammonium Persulfate	(NH <sub>4</sub> ) <sub>2</sub> S <sub>2</sub> O <sub>8</sub>		500g	Sigma-Aldrich	7727-54-0	A7460
1	C0268223	Ammonium tetrachloro-cuprate (II) dihydrate 98%	(NH <sub>4</sub> ) <sub>2</sub> CuCl <sub>4</sub> ·2H <sub>2</sub> O		250g	Aldrich	10060-13-6	388556
2	C0268228	Ammonium tetrachloro-cuprate (II) dihydrate 98%	(NH <sub>4</sub> ) <sub>2</sub> CuCl <sub>4</sub> ·2H <sub>2</sub> O		250g	Aldrich	10060-13-6	388556
48	C0193051	Barium isopropoxide	Ba(OCH(CH <sub>3</sub> ) <sub>2</sub> ) <sub>2</sub>		25g	Sigma-Aldrich	24363-37-9	339148
3	C0268225	Cadmium Chloride	CdCl <sub>2</sub>	Certified ACS	30gm	Fisher Scientific	10108-64-2	C10-1000
36	C0268833	Cerium Oxide	CeO <sub>2</sub>		25g	Alfa	1306-383	P4562
4	C0161873	Cetyltrimethylammonium bromide 99+%	C <sub>19</sub> H <sub>42</sub> BrN		200g	Acros Organics	57-09-0	227161000
49	C0193052	Cobal(II) nitrate hexahydrate	Co(NO <sub>3</sub> ) <sub>2</sub> ·6(H <sub>2</sub> O)	Reagent	500g	Sigma-Aldrich	10026-22-9	230375
5	C0161872	Copper (I) chloride 95%	ClCu		450g	Acros Organics	7758-89-6	199645000
35	C0060105	Copper (II) Oxide	CuO	Grade 1	25 g	JM Technology	1317-38-0	976151
31	C0193027	Dihexadecyldimethylammonium Bromide, 97%			1g	Aldrich	70755-47-4	420220
62	C0268564	1,2-Dipalmitoyl- <i>sn</i> -Glycero-3-Phosphocholine	C <sub>40</sub> H <sub>80</sub> NO <sub>8</sub> P	(in freezer)	500mg	Avanti Polar Lipids, Inc.	63-89-8	850355P
63	C0265865	1,2-Dipalmitoyl- <i>sn</i> -Glycero-3-Phosphocholine	C <sub>40</sub> H <sub>80</sub> NO <sub>8</sub> P	(in freezer)	500mg	Avanti Polar Lipids, Inc.	63-89-8	850355P
6	C0268830	Eicosanoic Acid 99%	C <sub>20</sub> H <sub>40</sub> O <sub>2</sub>		.5g	Acros Organics	506-30-9	117720010
21	C0161860	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	50g	Fluka	112-02-7	52366
22	C0268827	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	10g	Fluka	112-02-7	52366
23	C0268828	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	10g	Fluka	112-02-7	52366
24	C0268825	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	10g	Fluka	112-02-7	52366
25	C0268826	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	10g	Fluka	112-02-7	52366
26	C0268824	Hexadecyltrimethylammonium chloride	C <sub>19</sub> H <sub>42</sub> CIN	Purum	10g	Fluka	112-02-7	52366
28	C0268829	Humic Acid	Unspecified		5g	Alfa	1415-93-6	41747
39	C0161822	Iron (II, III) Oxide	Fe <sub>3</sub> O <sub>4</sub>		25 g	Alfa	1317-61-9	22387
41	C0193028	Iron (III) Chloride 97%	FeCl <sub>3</sub>	Reagent	100g	Aldrich	7705-08-0	157740
50	C0193053	Iron(III) nitrate nonahydrate	Fe(NO <sub>3</sub> ) <sub>3</sub> ·9(H <sub>2</sub> O)	ACS Reagent	500g	Sigma-Aldrich	7782-61-8	216828
59	C0268870	Iron(III) nitrate nonahydrate	Fe(NO <sub>3</sub> ) <sub>3</sub> ·9(H <sub>2</sub> O)	ACS Reagent	500g	Sigma-Aldrich	7782-61-8	216828
38	C0161821	Lead (II) Oxide	PbO		25 g	Alfa	1317-36-8	10728
40	C0161823	Lead (IV) Oxide	PbO <sub>2</sub>		10g	Alfa	1309-60-0	22615
34	C0161820	Lead Oxide, 97%	Pb <sub>3</sub> O <sub>4</sub>		1kg	Alfa	1314-41-6	14232
51	C0193054	Lithium hydroxide	LiOH	Reagent	100g	Sigma-Aldrich	1310-65-2	545856
52	C0193055	Manganese(II) acetate tetrahydrate	(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> Mn·4(H <sub>2</sub> O)		500g	Sigma-Aldrich	6156-78-1	221007

30	C0268861	Nickel (II) Chloride	$\text{NiCl}_2 \cdot 6\text{H}_2\text{O}$	ReagentPlus	500g	Aldrich	7791-20-0	223387
53	C0193056	Nickel(II) nitrate hexahydrate	$\text{N}_2\text{NiO}_6 \cdot 6(\text{H}_2\text{O})$		1kg	Fluka	13478-00-7	72253
43	C0193030	Palmitic Acid	$\text{C}_{16}\text{H}_{32}\text{O}_2$	Grade II, Approx. 95%	100g	Sigma	57-10-3	P0625
42	C0193029	Palmitic Acid	$\text{C}_{16}\text{H}_{32}\text{O}_2$	Grade II, Approx. 95%	100g	Sigma	57-10-3	P0625
44	C0193031	Pluronic F-127	$(\text{C}_3\text{H}_6\text{OC}_2\text{H}_4\text{O})_x$		250g	Sigma		P2443
7	C0268239	Potassium Bicarbonate	$\text{KHCO}_3$	Certified ACS	480g	Fisher Scientific	298-14-6	P184-500
8	C0268236	Potassium Bromide	KBr	Certified ACS	500g	Fisher Scientific	7758023	P205-500
9	C0268237	Potassium Chloride	KCl	Certified ACS	500g	Fisher Scientific	7447-40-7	P217-500
60	C0269686	Potassium Chloride	KCl	ACS Reagent	25g	Sigma-Aldrich	7447-40-7	P3911
37	C0268220	Potassium ferrocyanide trinyarate		ACS Reagent	100 g	Aldrich	14459-95-1	A-88019-82
11	C0268224	Potassium Iodide	KI	Certified ACS	100g	Fisher Scientific	7681-11-0	P410-100
12	C0268235	Potassium Nitrate	$\text{KNO}_3$	Certified ACS	500g	Fisher Scientific	7757-79-1	P263-500
13	C0268238	Potassium Sulfate	$\text{K}_2\text{SO}_4$	Certified ACS Crystal	500g	Fisher Scientific	7778-80-5	P304-500
45	C0193568	Sodium Borohydrate	$\text{NaBH}_4$	Reagent	25g	Sigma-Aldrich	16940-66-2	452882
14	C0268234	Sodium Bromide	NaBr	Certified ACS	250g	Fisher Scientific	7647-15-6	S255-500
15	C0268231	Sodium Chloride	NaCl	Certified ACS	380g	Fisher Scientific	7647-14-5	S271-500
61	C0336980	Sodium Chloride	NaCl	ACS	500g	Fisher Scientific	7647-14-5	S271-500
10	C0193570	Sodium Citrate	$\text{C}_6\text{H}_5\text{Na}_3\text{O}_7 \cdot 2\text{H}_2\text{O}$		500g	Sigma	06132-04-3	S1804
54	C0193059	Sodium citrate	$\text{C}_6\text{H}_5\text{Na}_3\text{O}_7$		1kg	Sigma-Aldrich	132-04-3	S1804
27	C0268823	Sodium Dodecyl Sulfate	$\text{C}_{12}\text{H}_{25}\text{O}_4\text{SNa}$		500g	Sigma	151-21-3	L-5730
16	C0268226	Sodium Fluoride	NaF	Certified ACS	90g	Fisher Scientific	7681-49-4	S299-100
17	C0268232	Sodium Nitrate	$\text{NaNO}_3$	Certified ACS Crystal	500g	Fisher Scientific	7631-99-4	S343-500
29	C0268864	Sodium Nitrate	$\text{NaNO}_3$	ACS Reagent	500g	Aldrich	7631-99-4	221341
18	C0268230	Sodium Phosphate	$\text{Na}_3\text{PO}_4$	Certified ACS Tribasic	500g	Fisher Scientific	10101-89-0	5377-500
19	C0268233	Sodium Sulfate	$\text{Na}_2\text{SO}_4$	Certified ACS	480g	Fisher Scientific	7757-82-6	S421-500
55	C0193061	Urea	$\text{CH}_4\text{N}_2\text{O}$	Reagent	1kg	Sigma-Aldrich	57-13-6	208884
56	C0193062	Zinc acetate dihydrate	$(\text{C}_2\text{H}_3\text{O}_2)_2\text{Zn} \cdot 2(\text{H}_2\text{O})$	ACS Reagent	500g	Sigma-Aldrich	5970-45-6	383058
57	C0193063	Zirconium(IV) ethoxide	$\text{Zr}(\text{OC}_2\text{H}_5)_4$		500g	Sigma-Aldrich	18267-08-8	339121

POWDERS								
#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
89	C0193731	Alginic Acid from brown algae	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>		100g	Sigma	9005-32-7	A7003
86	C0193726	Aluminum Acetylacetonate 99%	C <sub>15</sub> H <sub>21</sub> AlO <sub>6</sub>	ReagentPlus	100g	Aldrich	13963-57-0	208248
76	C0193715	Aluminum Hydroxide	Al(OH) <sub>3</sub>	Reagent	500g	Sigma-Aldrich	21645-51-2	239186
75	C0193714	Aluminum Isopropoxide 98+%	Al(C <sub>3</sub> H <sub>7</sub> O) <sub>3</sub>		100g	Aldrich	555-31-7	220418
94	C0193741	Aluminum Nitrate Nonahdrate 98+%	Al(NO <sub>3</sub> ) <sub>3</sub> · 9H <sub>2</sub> O	ACS Reagent	500g	Sigma-Aldrich	7784-27-2	237973
91	C0193733	Ammonium Bicarbonate	CH <sub>5</sub> NO <sub>3</sub>		25g	Sigma-Aldrich	1066-33-7	A6141
95	C0193742	Ammonium Iron(III) Citrate	C <sub>6</sub> H <sub>11</sub> FeNO <sub>7</sub>		100g	Sigma-Aldrich	1185-57-5	F5879
87	C0193728	Ammonium Tetrathiomolybdate 99.97%	(NH <sub>4</sub> ) <sub>2</sub> MoS <sub>4</sub>		10g	Aldrich	15060-55-6	323446
88	C0193730	Bismuth(III) Chloride	BiCl <sub>3</sub>	Reagent	100g	Aldrich	7787-60-2	224839
82	C0193722	Bismuth(III) Nitrate Pentahydrate 98%	Bi(NO <sub>3</sub> ) <sub>3</sub> · 5H <sub>2</sub> O	Reagent	100g	Aldrich	10035-06-0	248592
64	C0193566	Boron Nitride	BN		250g	Alfa Aesar	10043-11-5	11078
98	C0193091	Calcium Chloride Hydrate, 99.999%	CaCl <sub>2</sub> · H <sub>2</sub> O		10g	Aldrich	22691-02-7	202940
80	C0193720	Cobalt(II) Sulfate Heptahydrate	CoSO <sub>4</sub> · 7H <sub>2</sub> O		100g	Sigma-Aldrich	10026-24-1	C6768
97	C0193090	Docosanoic Acid, 99%	C <sub>22</sub> H <sub>44</sub> O <sub>2</sub>		5g	Aldrich	112-85-6	216941
92	C0193738	Ethylenediaminetetraacetic Acid Disodium Salt Dihydrate	C <sub>10</sub> H <sub>14</sub> N <sub>2</sub> Na <sub>2</sub> O <sub>8</sub>		500g	Sigma-Aldrich	6381-92-6	E0399
83	C0193723	Gadolinium(III) Nitrate Hexahydrate 99.9%	Gd(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O		100g	Aldrich	19598-90-4	211591
71	C0193543	Gold Nanocrystal Powder			50mg	Ocean Nanotech		
79	C0193719	Iron(II) Sulfate Heptahydrate	FeSO <sub>4</sub> · 7H <sub>2</sub> O		250g	Sigma-Aldrich	7782-63-0	F7002
99	C0193092	Magnesium Chloride, Anhydrous, 99.9%	MgCl <sub>2</sub>		10g	Aldrich	7786-30-3	449164
102	C0193095	Manganese(II) Chloride Hydrate, 99.999%	MnCl <sub>2</sub> · H <sub>2</sub> O		5g	Aldrich	7313-06-1	529680
101	C0193094	Manganese(II) Chloride, 99+%	MnCl <sub>2</sub>		10g	Aldrich	7773-01-5	244589
78	C0193717	Manganese(II) Nitrate Hydrate 98%	Mn(NO <sub>3</sub> ) <sub>2</sub> · H <sub>2</sub> O		500g	Aldrich	15710-66-4	288640
81	C0193721	Manganese(II) Sulfate Monohydrate	MnSO <sub>4</sub> · H <sub>2</sub> O		100g	Sigma-Aldrich	10034-96-5	M7634
100	C0193093	Mangesium Chloride Hexahydrate, 99.995%	MgCl <sub>2</sub> · H <sub>2</sub> O		5g	Aldrich	7791-18-6	255777
66	C0193564	Nickel Sulfate Hexahydrate	NiSO <sub>4</sub> 6H <sub>2</sub> O	ACS Reagent	100g	Riedel-de Haen	10101-97-7	31483
74	C0193713	Nickel(II) Acetate Tetrahydrate 98%	Ni(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>2</sub> · 4H <sub>2</sub> O		100g	Aldrich	6018-89-9	244066
93	C0193740	Nickel(II) Nitrate Hexahydrate	Ni(NO <sub>3</sub> ) <sub>2</sub> · 6H <sub>2</sub> O		100g	Sigma-Aldrich	13478-00-7	244074
70	C0193567	Nochromix			10 pkts	Godax Labs		19-010
67	C0193563	Oxalic Acid	HO <sub>2</sub> CCO <sub>2</sub> H		100g	MP Biomedicals	144-62-7	150144
73	C0193710	1-Palmitoyl-2-Oleoyl- <i>sn</i> -Glycero-3-Phospho-(1'- <i>sn</i> -Glycerol)	C <sub>40</sub> H <sub>76</sub> O <sub>10</sub> PNa	(in freezer)	50g	Avanti Polar Lipids, Inc.	268550-95-4	840457P
68	C0193562	Pluronic P 123 Surfactant			8oz	BASF	9003-11-6	30085864
69	C0193561	Pluronic P 123 Surfactant			8oz	BASF	9003-11-6	30085864
77	C0193716	Potassium Permanganate 97%	KMnO <sub>4</sub>		500g	Sigma-Aldrich	7722-64-7	238511
96	C0193077	Potassium Tellurite Hydrate	K <sub>2</sub> O <sub>3</sub> Te		50g	Aldrich	123333-66-4	60539
103	C0193096	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014
104	C0193097	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014
105	C0193098	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014
106	C0193099	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014

<b>107</b>	C0193100	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014
<b>108</b>	C0193101	Sodium Bicarbonate, 99.7-100.3%	NaHCO <sub>3</sub>	ACS Reagent	25g	Sigma-Aldrich	144-55-8	S6014
<b>72</b>	C0193707	Sodium phosphate, dibasic dihydrate	Na <sub>2</sub> HPO <sub>4</sub> · 2H <sub>2</sub> O	HPLC Grade	25g	Acros Organics	10028-24-7	343810250
<b>90</b>	C0193732	Telluric Acid 97.5-102.5%	Te(OH) <sub>6</sub>		25g	Aldrich	7803-68-1	308463
<b>65</b>	C0193565	Thiomalic Acid	C <sub>4</sub> H <sub>6</sub> O <sub>6</sub> S	HPLC Grade	100g	Fluka	70-49-5	88460
<b>85</b>	C0193725	Yttrium(III) Acetate Hydrate 99.9%	Y(C <sub>2</sub> H <sub>3</sub> O <sub>2</sub> ) <sub>3</sub> · H <sub>2</sub> O		50g	Aldrich	304675-69-2	326046
<b>84</b>	C0193724	Yttrium(III) Nitrate Hexahydrate 99.8%	Y(NO <sub>3</sub> ) <sub>3</sub> · 6H <sub>2</sub> O		100g	Aldrich	13494-98-9	237957

**BUFFERS**

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0336979	Buffer Solution pH 4.00 - red		Certified	350ml	Fisher Scientific		SB101-500
2	C0336977	Buffer Solution pH 7.00 - yellow		Certified	500ml	Fisher Scientific		SB107-500
3	C0336978	Buffer Solution pH 10.00 - blue		Certified	250ml	Fisher Scientific		SB115-500
4	N/A	Dulbecco's Phosphate Buffered Saline Tablets			100 tablets	Oxoid		
5	N/A	Formalin, Neutral, Buffered, 10% w/v in Phosphate Buffer			75ml	Ted Pella, Inc.		
6	N/A	HEPES Buffer, 1M solution pH 7.3			60ml	Fisher Scientific		
7	N/A	HEPES Buffer, 1M solution pH 7.3			100ml	Fisher Scientific		
8	N/A	HEPES Buffer, 1M solution pH 7.3			100ml	Fisher Scientific		
9	N/A	HEPES Buffer, 1M solution pH 7.3			100ml	Fisher Scientific		

**NON-ACIDIC/NON-FLAMMABLE/NON-CARCINOGENIC**

#	Barcode	Full Name	Formula	Grade	Amt.	Distributor	CAS #	CAT #
1	C0080578	Colloidal Silica (Ludox HS-30)		Technical		DuPont		
2	C0193708	Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	Technical	1Gal	PTI Process Chemicals	107-21-1	
3	C0193709	Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	Technical	1Gal	PTI Process Chemicals	107-21-1	
4	C0193045	Synthetic Sea Water			100ml	Aldrich		
5	N/A	Phytantriol	C <sub>20</sub> H <sub>42</sub> O <sub>3</sub>			CSIRO	74563-64-7	
6	C0268816	Ethylene Glycol	C <sub>2</sub> H <sub>6</sub> O <sub>2</sub>	Technical	1Gal	PTI Process Chemicals	107-21-1	