

A	B	C	D	E	F	G
ID# tested	Chemical name	CAS No.	Supplier, Catalog Number (Amount)	Cost (Yen)	Cost/unit (g or mL)	Note
	1) Polyhydric alcohols					
#01	1,2,6-Hexanetriol	106-69-4	Tokyo Chemical Industry Co., H0104-25g	4,300	172	
#02	1,2,4-Butanetriol	3068-00-6	Tokyo Chemical Industry Co., B0687-25g	6,600	264	
#03	3-Methylpentane-1,3,5-triol	7564-64-9	Tokyo Chemical Industry Co., T0894-25G	4,100	164	
#04	3-Methylamino-1,2-propanediol	40137-22-2	Tokyo Chemical Industry Co., M1243-25G	6,100	244	Aminoalcohol
#05	cis-2-Butene-1,4-diol	6117-80-2	Tokyo Chemical Industry Co., B0693-25G	2,300	92	
#06	N,N'-Bis(2-hydroxyethyl)ethylenediamine	4439-20-7	Tokyo Chemical Industry Co., B3807-250G	16,900	68	Not available on screening, Aminoalcohol
#07	1,5-Hexadiene-3,4-diol	1069-23-4	Tokyo Chemical Industry Co., H0807-10mL	15,200	1,520	Not available on screening
#08	3-Amino-1,2-propanediol	616-30-8	Tokyo Chemical Industry Co., A0628-25g	7,800	312	Aminoalcohol
#09	N,N,N',N'-Tetrakis(2-hydroxyethyl)ethylenediamine	140-07-8	Tokyo Chemical Industry Co., T0120-25G	4,600	184	Aminoalcohol
#10	N,N,N',N'-Tetrakis(2-hydroxypropyl)ethylenediamine	102-60-3	Tokyo Chemical Industry Co., T0781 500g	4,300	9	Aminoalcohol
#11	1,4-Bis(2-hydroxyethoxy)-2-butyne	1606-85-5	Tokyo Chemical Industry Co., B0979-25G	6,800	272	
#12	5-Norbornene-2-exo,3-exo-dimethanol	699-95-6	Tokyo Chemical Industry Co., N0769-5G	30,000	6,000	
#13	4,8-Bis(hydroxymethyl)tricyclo[5.2.1.0 ^{2,6}]decane, mixture of isomers	26896-48-0	Sigma-Aldrich, B45909-100G	7,900	79	NOT dissolved ~10%
#14	2-Hydroxyphenethyl alcohol	7768-28-7	Sigma-Aldrich, 188247-5G	19,900	3,980	NOT dissolved ~10%
#15	2-Amino-1,3-propanediol	534-03-2	Wako Pure Chemical Industries, 355-32332 (25 g)	11,000	440	Aminoalcohol, Corrosive to metals and skin/serious eye damage
#16	2,2'-Nitrilotriethanol/Triethanolamine	102-71-6	Wako Pure Chemical Industries, 145-05605 (500 g)	1,500	3	Aminoalcohol
#17	Trisopropanolamine	122-20-3	Nacalai Tesque, 35323-55 (500 g)	2,700	5	Aminoalcohol
#18	Glycerol	56-81-5	Nacalai Tesque, 17018-25 (500 mL)	1,650	3	Sugar alcohol (C=3)
#19	Xylitol	87-99-0	Nacalai Tesque, 36718-52 (25 g)	1,600	64	Sugar alcohol (C=5)
#20	D- Glucitol/Sorbit	50-70-4	Nacalai Tesque, 32021-95 (500 g)	2,700	5	Sugar alcohol (C=6)
	2) Detergents					
#21	Sodium deoxycholate	302-95-4	Wako Pure Chemical Industries, 194-08311 (100 g)	8,300	83	Anionic, Cholesterol-like
#22	Sodium N-dodecanoylsarcosinate	137-16-6	Wako Pure Chemical Industries, 198-14745 (500 g)	12,000	24	NOT dissolved ~10%, Anionic
#23	CHAPS	75621-03-3	Nacalai Tesque, 07957-64 (5 g)	10,200	2,040	Zwitterionic
#24	Triton™ X-45	9002-93-1	Sigma-Aldrich, X45-100ML	4,400	44	NOT dissolved ~10%, Non-ionic, n=-5
#25	Polyethylene glycol mono- <i>p</i> -isooctylphenyl ether/Triton® X-100	9002-93-1	Nacalai Tesque, 25987-85 (500 mL)	7,000	14	Non-ionic, n=9-10
#26	Tween20®/Polysorbate 20	9005-64-5	MP Biomedicals, 194841 (100 mL)	8,900	89	Non-ionic
#27	IGEPAL® CA-630/Nonidet P-40	9036-19-5	MP Biomedicals, 198596 (100 mL)	9,400	94	Non-ionic, n=9
#28	Brij® 35/Brij® L23	9002-92-0	Sigma-Aldrich, B4184-100ML	8,300	83	Non-ionic
	3) Urea-like hydrophilic small molecules					
#29	N,N-Dimethylacetamide	127-19-5	Nacalai Tesque, 12805-42 (25 mL)	1,400	56	
#30	N,N-Dimethylformamide	68-12-2	Wako Pure Chemical Industries, 045-02916 (500 mL)	1,680	3	
#31	Acetonitrile	75-05-8	Kishida Chemical Co., 140-00403 (3 L)	14,000	5	
#32	Oxamide	471-46-5	Wako Pure Chemical Industries, 157-00502 (25 g)	3,700	148	NOT dissolved ~10%
#33	Guanidine hydrochloride	50-01-1	Wako Pure Chemical Industries, 070-01825 (500 g)	12,000	24	
#34	Hydantoic acid/N-Carboxymethylurea	462-60-2	Tokyo Chemical Industry Co., H0655-25G	10,600	424	NOT dissolved ~10%
#35	Glycocyanine/Guanidoacetic acid	352-97-6	Tokyo Chemical Industry Co., G0167-25G	4,900	196	NOT dissolved ~10%
#36	Urea	57-13-6	Nacalai Tesque, 35904-45 (500 g)	1,150	2	
#37	Allophanamide/Biuret	108-19-0	Tokyo Chemical Industry Co., B0513-25G	4,800	192	NOT dissolved ~10%
#38	Thiourea	62-56-6	Nacalai Tesque, 33812-92 (25 g)	1,350	54	
#39	Dimethyl sulfoxide	67-68-5	Nacalai Tesque, 13445-45 (500 g)	9,550	19	
#40	1,4-Dioxane	123-91-1	Nacalai Tesque, 13622-15 (500 mL)	1,500	3	

Susaki et al. Supplemental Table S1