

Supplementary Materials

Antistress Effects of Terpinen-4-ol and Compounds of
Mimicked Yuzu Synthetic Fragrance in Humans and Mice

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Table S1. The retention indices (RI) data identified by GC/MS analysis.

No	RT	RI	Area	Hit	CmdName	CAS No	Formula	MW	Library
1	3.867	854	1,199,369,673	91	Decane	124-18-5	C10H22	142.172	NIST17.L
2	4.913	929	837,579,078	95	Undecane	1120-21-4	C11H24	156.188	NIST17.L
3	6.279	1019	954,818,194	95	Dodecane	112-40-3	C12H26	170.203	NIST17.L
4	7.828	1097	1,124,257,510	97	Tridecane	629-50-5	C13H28	184.219	NIST17.L
5	9.438	1163	1,151,266,967	96	Tetradecane	629-59-4	C14H30	198.235	NIST17.L
6	11.032	1227	1,133,822,677	96	Pentadecane	629-62-9	C15H32	212.250	NIST17.L
7	12.569	1285	1,113,489,855	98	Hexadecane	544-76-3	C16H34	226.266	NIST17.L
8	14.044	1341	1,118,602,044	98	Heptadecane	629-78-7	C17H36	240.282	NIST17.L
9	15.451	1394	1,120,703,501	99	Octadecane	593-45-3	C18H38	254.297	NIST17.L
10	16.796	1447	1,108,583,375	98	Nonadecane	629-92-5	C19H40	268.313	NIST17.L
11	18.120	1498	1,718,900,943	99	Eicosane	112-95-8	C20H42	282.329	NIST17.L
12	19.326	1548	1,116,662,883	99	Heneicosane	629-94-7	C21H44	296.344	NIST17.L
13	20.509	1596	1,116,089,968	99	Docosane	629-97-0	C22H46	310.360	NIST17.L
14	21.648	1644	1,123,508,870	99	Tricosane	638-67-5	C23H48	324.376	NIST17.L
15	22.747	1691	1,137,230,946	99	Tetracosane	646-31-1	C24H50	338.391	NIST17.L
16	23.804	1738	1,126,961,637	95	Pentacosane	629-99-2	C25H52	352.407	NIST17.L
17	24.824	1784	1,143,461,125	99	Hexacosane	630-01-3	C26H54	366.423	NIST17.L
18	25.811	1829	1,148,454,551	99	Heptacosane	593-49-7	C27H56	380.438	NIST17.L
19	26.765	1874	1,141,454,553	92	Octacosane	630-02-4	C28H58	394.760	NIST17.L
20	27.704	1919	1,171,789,391	96	Nonacosane	630-03-5	C29H60	408.787	NIST17.L

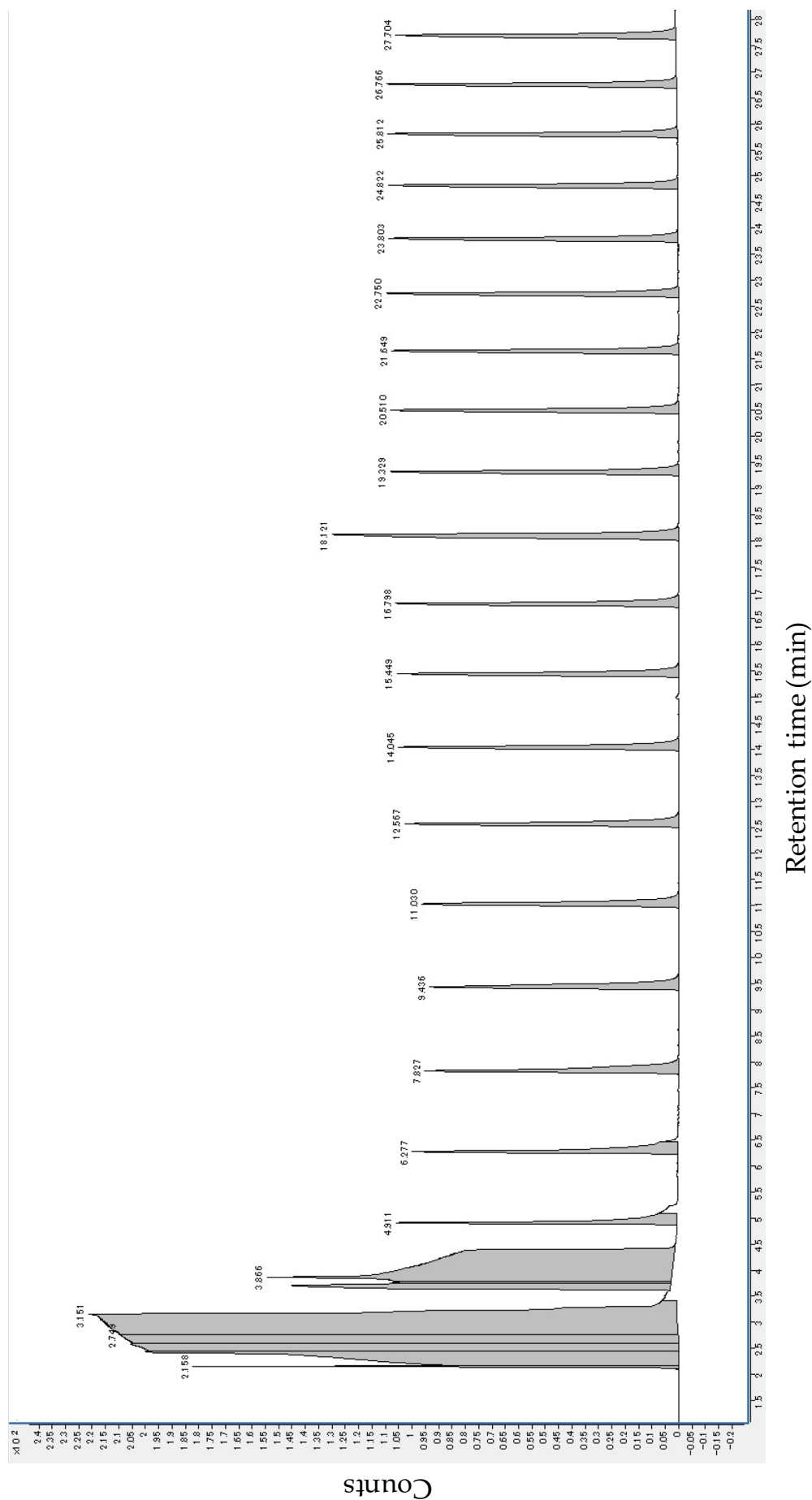


Table S2. Content rate of compounds of natural yuzu essential oils extracted by cold-press.

Retention time (min)	Retention indices	Compounds	CAS RN®	Content rate (volume %)
3.5154	966	Ethyl Acetate	141-78-6	0.009
4.5507	1065	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	7785-70-8	6.216
4.9401	1102	Bicyclo[4.1.0]heptane, 7-methylene-	54211-14-2	0.003
5.0279	1108	Bicyclo[2.2.1]heptane, 7,7-dimethyl-2-methylene-	471-84-1	0.022
5.5221	1144	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)-	18172-67-3	2.411
5.6862	1157	Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	3387-41-5	1.041
6.2206	1196	.beta.-Myrcene	123-35-3	2.641
6.2747	1069	.alpha.-Phellandrene	99-83-2	1.878
6.3410	1204	Bicyclo[2.2.2]oct-5-en-2-ol	55320-40-6	0.017
6.4827	1213	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	99-86-5	0.421
6.7982	1234	D-Limonene	5989-27-5	53.342
6.9148	1157	.beta.-Phellandrene	555-10-2	8.650
7.2614	1183	Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	2867-05-2	0.014
7.4616	1276	.gamma.-Terpinene	99-85-4	16.201
7.5271	1281	trans-.beta.-Ocimene	3779-61-1	0.424
7.8502	1301	o-Cymene	527-84-4	2.440
8.0380	1313	Cyclohexene, 1-methyl-4-(1-methylethylidene)-	586-62-9	0.488
8.1395	1319	Octanal	124-13-0	0.007
10.4651	1464	Benzene, 4-ethenyl-1,2-dimethyl-	27831-13-6	0.074
10.4657	1464	Benzene, 1-methyl-3-(1-methylethenyl)-	1124-20-5	0.075
10.8534	1489	Cyclohexanol, 1-methyl-4-(1-methylethenyl)-, cis-	7299-41-4	0.015
12.1289	1571	Linalool	78-70-6	1.358
13.0137	1630	3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-, (R)-	20126-76-5	0.020
13.3509	1653	Propane, 1,3-dimethoxy-	17081-21-9	0.071
14.0199	1636	(E)-.beta.-Farnesene	18794-84-8	0.005
14.3766	1723	.alpha.-Terpineol	98-55-5	0.054
14.7226	1748	cis-Muurola-4(15),5-diene	157477-72-0	0.010
15.0609	1772	Cyclohexane, 1-ethenyl-1-methyl-2-(1-methylethenyl)-4-(1-methylethylidene)-	3242-08-8	0.023
15.5699	1809	p-Mentha-1,5-dien-8-ol	1686-20-0	0.009
20.7121	2218	Thymol	89-83-8	0.061

Table S3. Content rate of compounds of natural yuzu essential oils extracted by steam-distillation.

Retention time (min)	Retention indices	Compounds	CAS RN®	Content rate (volume %)
4.5485	1065	(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	7785-70-8	6.271
4.6732	1077	Butanoic acid, 2,2-dimethyl-	595-37-9	0.012
5.0302	1109	Camphene	79-92-5	0.004
5.1853	1120	Hexanal	66-25-1	0.041
5.5203	1144	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)-	18172-67-3	1.055
5.6849	1157	Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	3387-41-5	0.246
6.0537	1069	.alpha.-Phellandrene	99-83-2	0.004
6.2206	1196	.beta.-Myrcene	123-35-3	6.825
6.2742	1069	.alpha.-Phellandrene	99-83-2	4.857
6.3399	1204	1,3-Methanopentalene, octahydro-	13913-22-9	0.051
6.4818	1213	1,3-Cyclohexadiene, 1-methyl-4-(1-methylethyl)-	99-86-5	1.560
6.7988	1234	D-Limonene	5989-27-5	53.321
6.9150	1157	.beta.-Phellandrene	555-10-2	3.856
7.0429	1249	2-Hexenal, (E)-	6728-26-3	0.018
7.2543	1183	Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-	4889-83-2	0.021
7.4622	1276	.gamma.-Terpinene	99-85-4	4.217
7.5267	1281	trans-.beta.-Ocimene	3779-61-1	0.395
7.8498	1301	o-Cymene	527-84-4	11.465
8.0383	1313	Cyclohexene, 1-methyl-4-(1-methylethylidene)-	586-62-9	0.440
8.0400	1313	Benzene, (1-methoxypropyl)-	59588-12-4	1.299
8.1369	1319	3-Amino-1,2,4-triazole-5-carboxylic acid	3641-13-2	0.016
9.0081	1373	2-Propenal	107-02-8	0.013
9.5336	1406	3-Hexen-1-ol, formate, (Z)-	33467-73-1	0.001
9.7978	1423	Ethanone, 1-(2-methylphenyl)-	577-16-2	0.006
10.4659	1464	Benzene, 1-methyl-3-(1-methylethenyl)-	1124-20-5	0.236
10.5017	1467	Benzene, 1,4-diethyl-	105-05-5	0.046
12.1271	1571	Linalool	78-70-6	2.198
13.0118	1630	Terpinen-4-ol	562-74-3	0.145
13.3467	1653	Propane, 1,3-dimethoxy-	17081-21-9	0.062
14.3721	1723	.alpha.-Terpineol	98-55-5	0.045
20.7126	2218	Pentandioic acid, (p-t-butylphenyl) ester	212762-88-4	0.059
24.0359	2523	5-Hydroxy-4-octanone	496-77-5	0.035