Supplementary Materials

Table S1 GC-MS analysis of volatile components in fermentation waste of *Prunus mume*

Numbers	CAS	Substracts	Concentration (mg/L)
		Alcohols	
1	71-36-3	1-Butanol	2.25±0.099
2	123-51-3	1-Butanol, 3-methyl-	3.35±0.35
3	111-27-3	1-Hexanol	5.24±1.94
4	100-51-6	Benzyl alcohol	8.33±0.96
5	78-70-6	Linalool	14.33±1.09
6	2270-57-7	3,7-Dimethyl-6-octen-3-ol	9.26±1.06
7	1960-12-8	Phenylethyl Alcohol	3.02±0.12
8	10482-56-1	Terpineol	25.19±1.87
9	111-70-6	1-Heptanol	3.95±0.53
10	5986-38-9	trans-Ocimenol	6.68±1.06
11	21129-09-9	1,2-Tetradecanediol	10.796±0.35
		Total	**92.39±9.42**
		Esters	
12	105-37-3	Propanoic acid, ethyl ester	1.87±0.52
13	105-54-4	Butanoic acid, ethyl ester	1.91±0.12
14	123-66-0	Hexanoic acid, ethyl ester	12.27±2.29
15	142-92-7	Acetic acid, hexyl ester	1.41±0.202
16	119-36-8	Methyl salicylate	4.803±0.81
17	106-32-1	Octanoic acid, ethyl ester	6.48±1.17
18	93-89-0	Benzeneacetic acid, ethyl ester	10.701±2.01
19	93-92-5	Acetic acid, 2-phenylethyl ester	10.07±1.76
20	2021-28-5	Benzenepropanoic acid, ethyl ester	2.598±0.33
21	6378-65-0	Hexanoic acid, hexyl ester	3.594±0.99
22	110-38-3	Decanoic acid, ethyl ester	0.93±0.014
23	628-97-7	Hexadecanoic acid, ethyl ester	3.99±0.31
		Total	**60.64±10.53**

		Acids and Anhydrides	
24	334-48-5	n-Decanoic acid	9.65±1.64
25	142-62-1	Hexanoic acid	1.88±0.603
26	124-07-2	Octanoic acid	6.97±0.56
27	2170-03-8	2,5-Furandione, dihydro-3-methylene-	1.199±0.057
		Total	**19.71±2.85**
		Aldehydes and Ketones	
28	111-13-7	2-Octanone	4.704±0.33
29	112-12-9	2-Undecanone	44.32±3.86
30	17283-81-7	4-(2,6,6-trimethyl-1-cyclohexen-1-yl)butan-2-one	11.08±0.94
31	706-14-9	2(3H)-Furanone, 5-hexyldihydro	15.17±1.17
32	3301-94-8	δ-Nonalactone	9.94±0.29
33	14901-07-6	beta-ionone	24.33±5.68
34	100-52-7	Benzaldehyde	2.85±0.304
35	123-15-9	Pentanal, 2-methyl-	31.78±2.19
		Total	**144.18±14.77**
		Others	
36	7392-19-0	2H-Pyran, 2-ethenyltetrahydro-2,6,6-trimethyl-	2.16±0.53
37	705-86-2	2H-Pyran-2-one, tetrahydro-6-pentyl-	12.52±1.51
38	1786-08-9	2H-Pyran,3,6-dihydro-4-methyl-2-(2-methyl-1-propenyl)-	1.27±0.12
39	112-40-3	Dodecane	17.196±1.01
40	4390-4-9	Hexadecane	1.95±0.06
41	57-56-7	Hydrazinecarboxamide	6.52±6.19
		Total	**41.604±3.85**

Table S2. LC-MS analysis of phenolic components in the fermentation waste extract

Numbers	RT (min)	Compound name	Molecular Weight	Formula	mzCloud Best Match
1	5.576	Neochlorogenic acid	353.08801	$C_{16}H_{18}O_9$	87.9
2	13.018	Hellicoside	656.19557	$C_{29}H_{36}O_{17}$	/
3	1.684	Dobesilic acid	189.99327	$C_6H_6O_5S$	/
4	7.017	Chlorogenic acid	353.08765	$C_{16}H_{18}O_9$	81.6
5	12.202	Apigenin 7- (6'''-acetylallosyl- (1->2) glucoside)	636.16765	$C_{29}H_{32}O_{16}$	/
6	1.621	8-Hydroxy-7-nitroso-5-quinolinesulfonic acid	253.99939	$C_9H_6N_2O_5S$	/
7	5.576	7-Hydroxycoumarine	163.03923	$C_9H_6O_3$	68.4
8	8.362	6-Hydroxymyricetin 3,6,3',5'-tetramethyl ether 7-glucoside	552.14665	$C_{25}H_{28}O_{14}$	/
9	1.015	5,7,3',4',5'-Pentahydroxy-3,6,8-trimethoxyflavone	392.07603	$C_{18}H_{16}O_{10}$	/
10	9.099	4-O-Acetyl-6-deoxy-2-O-[(2E)-3-(4-hydroxy-3-methoxyphenyl)-2-propenoyl]-alpha-L-mannopyranose	382.12672	$C_{18}H_{22}O_9$	/
11	9.796	4'-Hydroxy-3,5,8,3'-tetramethoxy-7-prenyloxyflavone	442.16115	$C_{24}H_{26}O_8$	/
12	8.204	1,3,6,8-Naphthalenetetrol	192.04277	$C_{10}H_8O_4$	/
13	10.688	mallotojaponin	444.17684	$C_{24}H_{28}O_8$	/
14	16.105	1,2-Dihydro-5-hydroxy-2- (1-hydroxy-1-methylethyl) -4- (isobutyryl) -6-phenylfurano [2,3-h] [1] benzopyran-8-one	408.15572	$C_{24}H_{24}O_6$	/
15	7.114	3-O-Feruloylquinic acid	367.10349	$C_{17}H_{20}O_9$	86.1
16	14.623	Isocaviunin 7-O-gentiobioside	698.20631	$C_{31}H_{38}O_{18}$	/