

Table S1. *Cont.*

Classes	Compounds	RI ^a	LRI ^b	2009				2010					
				Control	UV1-A	Control	UV1-A	Control	UV1-A	Control	UV1-A		
	β -Damascenone	1833	1838	√	√	√	√	√	√	√	√	√	√
	Geranylacetone	1864	1868	√	√	√	√	√	√	√	√	√	√
	Nerylactone	1866	1865	√	√	√	√	√	√	√	√	√	√
	β -Ionone	1952	1964	√	√	√	√	√	√	√	√	√	√
Amino acid-derived													
<i>Benzenoids</i>													
	Styrene	1255	1248	√	√	√	√	√	√	√	√	√	√
	<i>p</i> -Cymene	1295	1280	--	--	--	√	√	√	√	√	√	√
	Benzaldehyde	1532	1541	√	√	√	√	√	√	√	√	√	√
	4-Methyl benzaldehyde	1630	1642	√	√	√	√	√	√	√	√	√	√
	Benzenacetaldehyde	1644	1663	√	√	√	√	√	√	√	√	√	√
	Acetophenone	1656	1662	--	--	--	√	√	√	√	√	√	√
	Ethyl benzoate	1676	1681	--	--	--	√	√	√	√	√	√	√
	3-Ethyl benzaldehyde	1680	1168 ^c	--	--	--	√	√	√	--	--	√	√
	1-(4-Methylphenyl)-ethanone	1750	1797	--	--	--	√	√	√	√	√	√	√
	Naphthalene	1756	1765	√	√	√	√	√	√	√	√	√	√
	Methyl salicylate	1792	1798	--	--	--	√	√	√	√	√	√	√
	α -Phenylethanol	1812	1816	√	√	√	√	√	√	√	√	√	√
	3,4-Dimethylbenzaldehyde	1829	1790	√	√	√	√	√	√	√	√	√	√
	Guaiacol	1862	1859	--	--	--	√	√	√	√	√	√	√
	Benzyl alcohol	1892	1872	√	√	√	√	√	√	√	√	√	√
	2,6-Diterbutyl-4-methyl phenol	1910	1910	√	√	√	√	√	√	√	√	√	√
	β -Phenylethanol	1928	1937	√	√	√	√	√	√	√	√	√	√
	4-Methyl phenol	2010	2031	√	√	√	√	√	√	√	√	√	√
	Phenol	2029	2014	√	√	√	√	√	√	√	√	√	√
	(<i>E</i>)-Cinnamaldehyde	2040	2043	--	--	--	√	√	√	--	--	√	√

Table S1. *Cont.*

Classes	Compounds	RI ^a	LRI ^b	2009				2010					
				Control	UV1-A	Control	UV1-A	Control	UV1-A	Control	UV1-A		
	(<i>Z</i>)-3-hexen-1-ol, acetate	1311	1324	√	√	√	√	√	√	√	√	√	√
	Ethyl octanoate	1429	1421	√	√	√	√	√	√	√	√	√	√
<i>Straight-chain acids</i>													
	Hexanoic acid	1860	1866	√	√	√	√	√	√	√	√	√	√
	(<i>E</i>)-3-Hexenoic acid	1950	1930	--	--	--	√	√	√	√	√	√	√
	Nonanoic acid	2190	2175	--	--	--	√	√	√	√	√	√	√
<i>Straight-chain ketones</i>													
	1-Penten-3-one	1010	1017	--	--	--	√	√	√	√	√	√	√
	3-Octanone	1250	1265	√	√	√	√	√	√	√	√	√	√
	2-Octanone	1290	1284	--	--	--	√	√	√	√	√	√	√
	1-Octen-3-one	1305	1310	√	√	√	√	√	√	√	√	√	√
	2,3-Octanedione	1345	1360	--	--	--	√	√	√	√	√	√	√

^a Retention indices on HP-Innowax column. ^b Linear retention indices on standard polar column referenced from NIST 11 database. ^c Linear retention index on semi-polar column referenced from NIST 11 database. √ Means detected, -- means undetected.

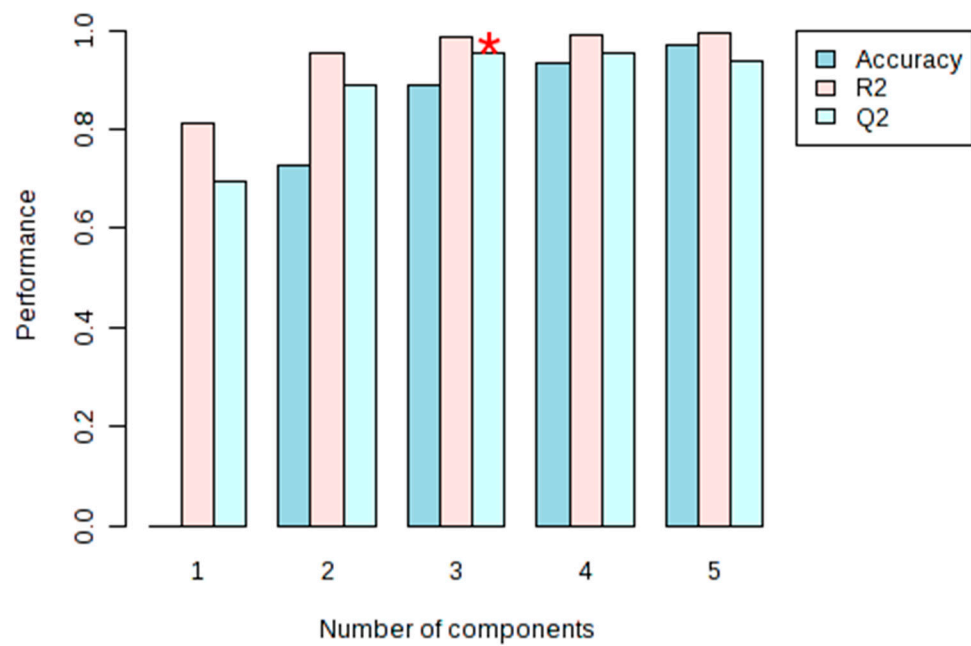


Figure S1. R^2 and Q^2 of PLS-DA by LOOCV method. * Grapes under various treatments were clearly separated by the first three principle components.