

**Supporting Information**  
**Characterization of free and bound monoterpene alcohols during Riesling fermentation**  
 Andrew J. Caffrey, Larry A. Lerno, Jerry Zweigenbaum, and Susan E. Ebeler

**Supplementary Table S1.** Monoterpenic related compounds found by SIM/Scan data with GC/MS.

Retention Time (min)	Compound	Calculated Retention Index (CRI)	<i>m/z</i> <sup>a</sup>
25.00	Linalool <sup>b</sup>	1585	59, 93, 154
28.10	Geranyl ethyl ether	1521	69, 93, 121
30.77	$\alpha$ -Terpineol <sup>b</sup>	1713	71, 93, 111
37.21	Geranyl formate	1732	69, 93, 121
39.88	Nerol <sup>b</sup>	1807	41, 68, 69, 93, 154
41.65	Geraniol <sup>b</sup>	1868	41, 68, 69, 93, 154

<sup>a</sup> *m/z* indicates the fragments utilized for semi-quantitation

<sup>b</sup>Compounds identified in SIM mode as described by Hendrickson et al. (2016)

**Supplementary Table S2.** Terpene products formed from hydrolysis of isolated glycosides.

Retention Time (min)	Compound	Enzyme Hydrolysis <sup>a</sup>	Acid Hydrolysis <sup>b</sup>
8.89	pentose-hexose-linalool	linalool	linalool, $\alpha$ -terpineol
9.56	pentose-hexose-linalool	linalool	linalool, $\alpha$ -terpineol
10.41	pentose-hexose-linalool	linalool	linalool, $\alpha$ -terpineol, geraniol, nerol, geranic oxide
10.78	pentose-hexose-linalool	linalool	linalool, $\alpha$ -terpineol, geraniol, nerol, geranic oxide
11.45	pentose-hexose-nerol	nerol	linalool, $\alpha$ -terpineol, geraniol, nerol, geranic oxide
11.95	pentose-hexose-geraniol	geraniol	linalool, $\alpha$ -terpineol, geraniol, nerol, geranic oxide
13.12	pentose-hexose-geraniol	geraniol	linalool, $\alpha$ -terpineol, geraniol, nerol
14.44	pentose-hexose-geraniol	geraniol	linalool, $\alpha$ -terpineol, geraniol, nerol

<sup>a</sup> Compounds listed within this column correspond to volatile compounds detected from isolated glycoside samples that underwent enzyme hydrolysis.

<sup>b</sup> Compounds listed within this column correspond to volatile compounds detected from isolated glycoside samples that underwent acid hydrolysis.

**Supplementary Table S3.** Volatile terpene related compounds identified in Riesling grapes and wine in 2018 and 2019.

2018 Grapes & Wine	2019 Grapes & Wine
linalool	linalool
nerol	nerol
geraniol	geraniol
	geranyl ethyl ether
	geranyl formate

