



Figure S1. LC-MS chromatogram (A) of a MW wine extract analysis with the corresponding sotolon MS/MS spectrum (B).

Table S1. Performance of the 22 individuals in preliminary trials: percentages of correct responses; number of 3-AFC tests completed; and individual best estimate thresholds (BETs). In bold are highlighted the individuals selected for the panel.

Individuals	% correct responses	# of 3-AFC	BET
P1	30	10	170
P2	30	10	170
P3	60	10	226
P4	52	36	125
P5	58	22	71
P6	38	11	170
P7	67	36	93
P8	62	35	141
P9	56	36	202
P10	38	16	264
P11	77	27	80
P12	35	36	921
P13	48	30	543
P14	70	41	67
P15	33	17	170
P16	42	12	283
P17^a	67	6	57
P18	67	6	453
P19	59	19	937
P20	43	7	1358
P21	86	7	85
P22	71	7	170

^a Panelist P17 would be selected but was not available during the current study.

Table S2. Sotolon concentration data of 3-, 5- and 10-year-old MW blends (mean ± standard deviation).

Category	Style	Concentration (µg/L)	Category	Style	Concentration (µg/L)
3 YO	Dry 1	82.2±4.0	5 YO	Dry 5	165.3±7.1
	Dry 2	3.6±1.0		Medium Dry 1	84.0±1.7
	Dry 3	48.6±2.3		Medium Dry 2	52.4±4.6
	Dry 4	54.8±2.5		Medium Dry 3	138.6±4.5
	Dry 5	48.4±2.7		Medium Dry 4	173.5±8.0
	Dry 6	57.5±2.3		Medium Dry 5	147.2±1.6
	Dry 7	32.1±4.4		Medium Dry 6	120.2±4.0
	Dry 8	68.3±1.2		Medium Dry 7	170.7±4.4
	Dry 9	37.0±0.4		Medium Sweet 1	23.9±0.4
	Dry 10	389.2±12.3		Medium Sweet 2	84.0±7.8
	Dry 11	115.5±9.8		Medium Sweet 3	145.4±8.8
	Medium Dry 1	35.5±4.7		Medium Sweet 4	147.9±9.6
	Medium Dry 2	3.3±0.3		Medium Sweet 5	167.0±11.0
	Medium Dry 3	36.8±0.7		Medium Sweet 6	210.9±4.3
	Medium Dry 4	48.0±1.4		Medium Sweet 7	163.7±2.1
	Medium Dry 5	103.5±4.1		Medium Sweet 8	106.5±14.2
	Medium Dry 6	44.2±4.7		Medium Sweet 9	227.7±14.2
	Medium Dry 7	42.3±1.7		Sweet 1	31.1±3.6
	Medium Dry 8	32.2±3.0		Sweet 2	50.7±3.5
	Medium Dry 9	86.0±0.5		Sweet 3	173.4±11.7
	Medium Dry 10	125.2±3.9		Sweet 4	313.0±4.4
	Medium Sweet 1	42.1±6.8		Sweet 5	286.0±6.0
Medium Sweet 2	6.9±0.6	Sweet 6	195.1±14.8		
Medium Sweet 3	34.5±1.6	Sweet 7	275.6±5.7		
Medium Sweet 4	69.7±0.9	Sweet 8	311.4±9.1		
Medium Sweet 5	98.8±1.4	Dry 1	171.0±16.0		
Medium Sweet 6	96.1±0.7	Dry 2	254.4±11.0		
Sweet 1	33.6±9.2	Dry 3	241.6±15.8		
Sweet 2	2.0±0.9	Dry 4	161.3±5.1		
Sweet 3	61.9±10.1	Medium Dry 1	294.2±1.7		
Sweet 4	38.9±0.7	Medium Dry 2	147.1±3.2		
Sweet 5	57.1±5.1	Medium Dry 3	163.7±19.0		
Sweet 6	50.8±3.8	Medium Dry 4	78.5±1.5		
Sweet 7	47.3±2.3	Medium Sweet 1	108.0±1.7		
Sweet 8	40.4±2.9	Medium Sweet 2	180.5±3.2		
Sweet 9	48.4±2.6	Medium Sweet 3	347.5±19.0		
Sweet 10	38.8±1.3	Medium Sweet 4	63.8±2.1		
Sweet 11	49.8±3.2	Medium Sweet 5	299.6±0.6		
Sweet 12	68.3±1.4	Sweet 1	227.3±20.7		
Sweet 13	89.9±7.1	Sweet 2	121.6±7.5		
Sweet 14	145.5±7.6	Sweet 3	98.4±1.8		
5 YO	Dry 1	19.4±2.8	Sweet 4	393.6±24.5	
	Dry 2	73.6±7.2	Sweet 5	516.1±16.7	
	Dry 3	86.2±10.3	Sweet 6	401.0±21.0	
	Dry 4	26.7±2.0			