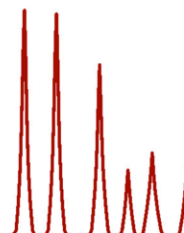


Oath Life Systems - Oath Soil Life™ Wine Grape Results				
Grenache - Yavapai College - Verde Valley, AZ - 2019				
Data Point	Treated	Untreated	Unit	% Change
titratable acidity	4.1	3.8	g/L	7.89%
pH	3.6	3.68		-2.17%
L-malic acid	0.37	0.52	g/L	-28.85%
tartaric acid (IC)	7.2	6.5	g/L	10.77%
brix	27	25.5	degrees	5.88%
glucose + fructose	283	270	g/L	4.81%
ammonia	31	47	mg/L	-34.04%
alpha-amino compounds (as N)	77	109	mg/L (as N)	-29.36%
yeast assimilable nitrogen	103	148	mg/L (as N)	-30.41%
potassium	1910	1850	mg/L	3.24%
catechin	20	22	mg/L	-9.09%
quercetin glycosides	81	15	mg/L	440.00%
tannin	273	161	mg/L	69.57%
polymeric anthocyanins	8	6	mg/L	33.33%
total anthocyanins	232	112	mg/L	107.14%
catechin/tannin index	0.073	0.137		-46.72%
polymeric anthocyanins/tannin index	0.029	0.037		-21.62%

Revised report. Replaces report number # 1299635



Oath Life Systems
Mill Valley, AZ 94941

Samples Received
24 August 2019 1:14 pm
Analysis Reported
4 September 2019 11:11 am

Analyte	Result	Analysis Date	Method Reference
908240042 Grenache-Treated			
titratable acidity	4.1 g/L	8/24/19	
pH	3.60	8/24/19	
L-malic acid	0.37 g/L	8/24/19	
tartaric acid (IC)	7.2 g/L	8/24/19	
brix	27.0 degrees	8/24/19	A2LA Accredited Test - SOP# W005
glucose + fructose	283 g/L	8/24/19	
ammonia	31 mg/L	8/24/19	
alpha-amino compounds (as N)	77 mg/L (as N)	8/24/19	
yeast assimilable nitrogen	103 mg/L (as N)	8/24/19	
potassium	1910 mg/L	8/24/19	
catechin	20 mg/L	8/26/19	
quercetin glycosides	81 mg/L	8/26/19	
tannin	273 mg/L	8/26/19	
polymeric anthocyanins	8 mg/L	8/26/19	
total anthocyanins	232 mg/L	8/26/19	
catechin/tannin index	0.073	8/26/19	
polymeric anthocyanins/tannin index	0.029	8/26/19	
908240043 Grenache-Non-Treated			
titratable acidity	3.8 g/L	8/24/19	
pH	3.68	8/24/19	
L-malic acid	0.52 g/L	8/24/19	
tartaric acid (IC)	6.5 g/L	8/24/19	
brix	25.5 degrees	8/24/19	A2LA Accredited Test - SOP# W005
glucose + fructose	270 g/L	8/24/19	
ammonia	47 mg/L	8/24/19	
alpha-amino compounds (as N)	109 mg/L (as N)	8/24/19	
yeast assimilable nitrogen	148 mg/L (as N)	8/24/19	
potassium	1850 mg/L	8/24/19	
catechin	22 mg/L	8/26/19	
quercetin glycosides	15 mg/L	8/26/19	
tannin	161 mg/L	8/26/19	
polymeric anthocyanins	6 mg/L	8/26/19	
total anthocyanins	112 mg/L	8/26/19	
catechin/tannin index	0.137	8/26/19	
polymeric anthocyanins/tannin index	0.037	8/26/19	

Revised report. Replaces report number # 1299635

The results in this report relate only to samples as submitted.

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Gordon Burns
Technical Director

