Heat Stability Bentonite Trial with Petit Manseng (2015) Horton Vineyards Michael Heny

Summary:

Identically sourced Petit Manseng was harvested, processed, and pressed. After alcoholic fermentation the wine was sulfured and racked. Prior to bottling the amount of bentonite (AEB) needed for protein stabilization was calculated using the laurent dulau equation (ICV eonologue) (y= 1.48 x difference of NTU + 2 where y= g/hL of sodium bentonite). Three identically sized lots were given a different amount of bentonite. One lot received 0g/hL bentonite, the second lot 40 g/hL, and the third 150 g/hL (amount calculated from the laurent dulau equation. All lots were settled and racked.

Lab Results:

Bentonite additions did not affect the chemical constitution of the wines in any perceptible way examined in this study.

	Control	Heated	Outcome	
Control	0.6	Precipitate	Not Stable	
40 g/hL	0.49	8.29	Not Stable	
150 g/hL	0.57	0.6	Stable	

	рН	TA (g/L)	AA (g/L)	%EtOH	Gluc+Fruc	Malic	TSO2	FSO2
Control	3.48	7.03	0.42	13.41	2439	244	117	26
40 g/hL	3.5	6.89	0.42	13.29	2483	242	116	25
150 g/hL	3.51	6.74	0.41	13.04	2376	237	118	26

Results:

Of respondents (n=13) 54% preferred the control (0 g/hL), 23% preferred 40 g/hL, and 23% preferred 150 g/hL.