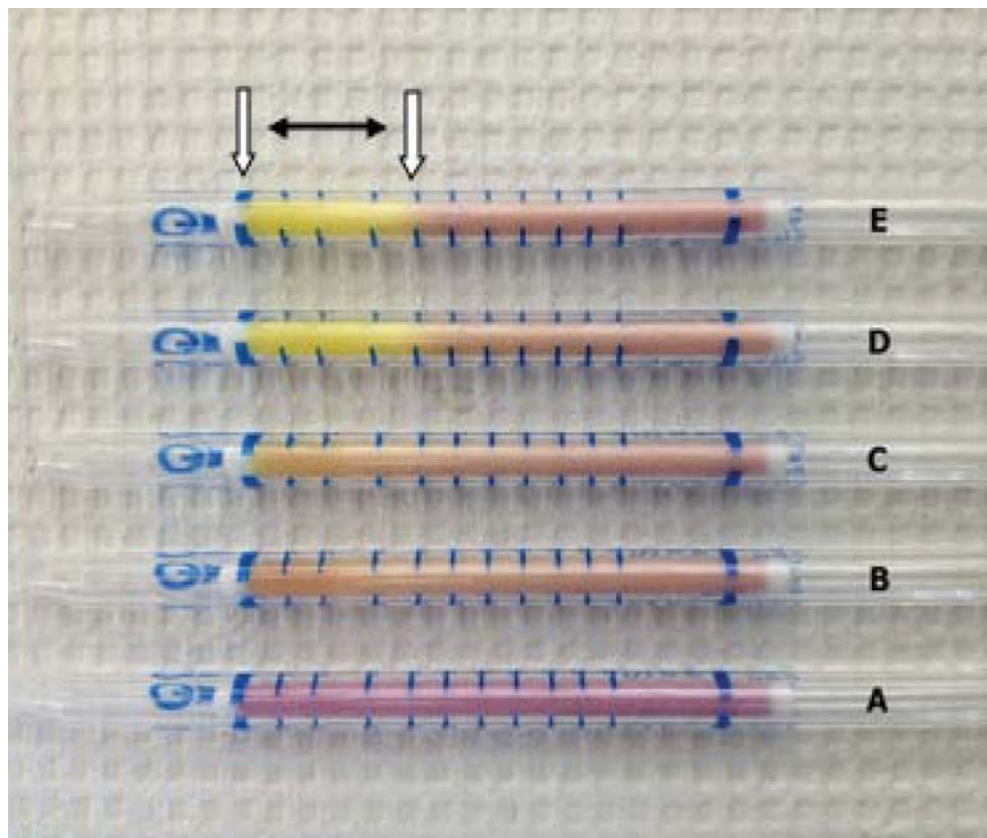
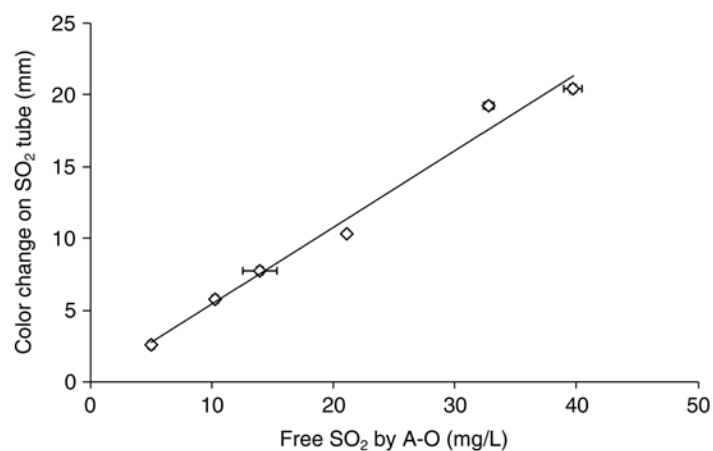


Supplemental Data for:

Pegram, Z., M.T. Kwasniewski, and G.L. Sacks. 2013.
Simplified method for free SO₂ measurement using gas detection tubes.
Am. J. Enol. Vitic. 64:405-410. doi: 10.5344/ajev.2013.13003.



Supplemental Figure 1 Color change in Gastec 5M tubes. **A:** Tube prior to use. **B:** Tube after two assays on blank solutions, then 15 min rest. **C:** Tube after two assays on blank solutions with no rest. Discoloration from purple to orange is due to CO₂ gas. **D:** Tube after two runs: one blank model wine and one model wine with 35 mg/L free SO₂. **E:** Tube after a single run of a model wine with 35 mg/L free SO₂. The distance between the white arrows indicates the discoloration length, where Free SO₂ (mg/L) = 1.84 * Length (mm).



Supplemental Figure 2 Calibration plot of SO₂ tube color change (mm) vs. free SO₂ by A-O (mg/L) for SO₂ standards in model wine. Error bars represent standard deviations (n = 2). The best fit line equation was $y = 0.543x + 0.0033$ ($r^2 = 0.99$, 1/x weighting). The y-intercept was ignored because it was negligible, resulting in the relationship: Free SO₂ (mg/L) = 1.84 * Length (mm).