



### **EQUIPMENT REQUIRED**

Spectrophotometer  
0.45 membrane

### **PROCEDURE: FOR WHITE AND RED WINE (FILTER WINE THROUGH 0.45 MILLIPORE MEMBRANE)**

1. Turn spectrophotometer on, allow 20 minutes to warm up before standardizing.
2. Place cuvette filled with DI water in spectrophotometer, be sure cuvette is dry and free of smudges.
3. Set wavelength dial at appropriate setting (White wine at 420 abs. and Red wine at 520 abs.)
4. For DI water, adjust read to 0.000 abs.
5. Place filtered wine sample into cuvette, close top of sample compartment, record reading; again be sure cuvette is dry and free of smudges.
6. Spectrophotometer must be standardized against DI water at each wavelength.

### **PROCEDURE: FOR WHITE CONCENTRATE**

1. Dilute to 14 Brix with distilled water.
2. Membrane filter through 0.45 Millipore membrane.
3. Read at 430 nm with 1.00 cm cell following usual procedure.

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### **EQUIPMENT REQUIRED**

Spectrophotometer  
0.45 or 1.2 membrane  
100 ml volumetric flask  
Small weigh boats  
Reagents: 3.2 pH buffer (MacClavaine's standard buffer)

### **PROCEDURE: FOR RED AND PINK CONCENTRATE**

1. Accurately weigh 1 g of concentrate in a small weigh boat.
2. Make dilution by transferring sample to a 100 ml volumetric flask. Rinse weigh boat with 3.2 buffer solution to ensure a complete transfer of sample.
3. Bring to volume with 3.2 buffer solution.
4. Filter diluted sample through 0.45 or 1.2 membrane filter. Filter paper absorbs color, therefore it is necessary to discard the first few ml of filtrate.
5. Transfer filtrate to 1 cm cuvette and read absorbance at 520 nm and 420 nm. Use 3.2 buffer solution to zero the spectrophotometer.

### **CALCULATION:**

520 reading x 2000 = Color  
520 / 420 = Ratio

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