



The most convenient wine analysis tool available

Technical specifications

Device features

- 1. Automatic power off**
Configurable; disabled, 10 mins, 20 mins, 30 mins
- 2. Interface**
Wireless (2.4 GHz)
- 3. Dimensions**
147 x 84 x 32 mm (5.79 x 3.31 x 1.26 in)
- 4. Design lifetime**
5 years or 20,000 tests
- 5. Weight**
210 g (7.41 oz)



Device specifications

Operating conditions

| | |
|-------------------|-----------------------------|
| Temperature | 10°C to 30°C (50°F to 86°F) |
| Relative humidity | <80% (without condensation) |

Storage conditions (test strips)

| | |
|-------------------|-------------------------------|
| Temperature | 2°C to 8°C (35.6°F to 46.4°F) |
| Relative humidity | <80% (without condensation) |

Storage conditions (analyzer)

| | |
|-------------------|-------------------------------|
| Temperature | 2°C to 40°C (35.6°F to 104°F) |
| Relative humidity | <80% (without condensation) |

Analyzer transport conditions (in packaging)

| | |
|-------------------|-------------------------------|
| Temperature | -20°C to 40°C (-4°F to 104°F) |
| Relative humidity | <90% (without condensation) |

Sample

| | |
|-------------|---|
| Sample type | Analyte dependent (refer to measurement specifications) |
| Sample size | >8 µL to 100 µL |



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Test strip & measurement specifications

| | |
|---|---|
| <p>Acetic Acid</p>  | <p>Product code 30730</p> <p>Sample type Red or white wine</p> <p>Measurement range 0.1 to 1.5 g/L</p> <p>Test time <3.5 min</p> <p>Dilution required Yes (1 part sample, 3 parts deionized/distilled water)</p> <p>Coefficient of determination (R₂)* 0.91</p> <p>Standard error* 0.1 to 1.5 g/L = 0.05 g/L</p> <p>Repeatability Red wine: 0.02 g/L; White wine: 0.04 g/L</p> |
| <p>Free SO₂</p>  | <p>Product code 30230</p> <p>Sample type Post-fermentation red or white wine</p> <p>Measurement range 3 to 50 mg/L</p> <p>Test time <1 min</p> <p>Dilution required No</p> <p>Coefficient of determination (R₂)* Red wine: 0.91; White wine: 0.92</p> <p>Standard error* 4.3 mg/L</p> <p>Repeatability ≤2.0% CV</p> |
| <p>Fructose</p>  | <p>Product code 30530 (strips); 91004 (diluent)</p> <p>Sample type Red or white wine</p> <p>Measurement range 0.1 to 10 g/L</p> <p>Test time <2 min</p> <p>Dilution required Yes (1 part sample, 4 parts Sentia fructose buffer)</p> <p>Coefficient of determination (R₂)* 0.1 to 10 g/L = 0.99</p> <p>Standard error* 0.1 to 1.0 g/L = 0.09 g/L; 0.1 to 10 g/L = 0.17 g/L</p> <p>Repeatability 0.1 to 5 g/L = ≤0.11 g/L SD; 5.1 to 10 g/L = ≤1.8% CV</p> |
| <p>Glucose</p>  | <p>Product code 30330</p> <p>Sample type Red or white wine</p> <p>Measurement range 0.1 to 10 g/L</p> <p>Test time <1 min</p> <p>Dilution required No</p> <p>Coefficient of determination (R₂)* 0.1 to 5 g/L = 0.97; 0.1 to 10 g/L = 0.99</p> <p>Standard error* 0.1 to 1.0 g/L = 0.13 g/L; 0.1 to 10 g/L = 0.18 g/L</p> <p>Repeatability 0.1 to 5 g/L = ≤0.05 g/L SD; 5.1 to 10 g/L = ≤1.0% CV</p> |
| <p>Malic Acid</p>  | <p>Product code 30430 (strips); 91002 (diluent)</p> <p>Sample type Grape juice; red or white wine</p> <p>Measurement range 0.05 to 5 g/L</p> <p>Test time <1 min</p> <p>Dilution required Yes (1 part sample, 4 parts Sentia malic acid buffer)</p> <p>Coefficient of determination (R₂)* 0.99</p> <p>Standard error 0.05 to 1 g/L = 0.065 g/L; 1 to 5 g/L = 6.75%</p> |
| <p>Titratable Acidity (pH 7.00 & 8.20)</p>  | <p>Product code 30630</p> <p>Sample type Grape juice; red or white wine</p> <p>Measurement range 3 to 10 g/L</p> <p>Test time <1 min</p> <p>Dilution required No</p> <p>Coefficient of determination (R₂)* pH 7.00 = 0.89; pH 8.20 = 0.87</p> <p>Standard error* pH 7.00 = 0.25 g/L; pH 8.20 = 0.26 g/L</p> <p>Repeatability Red wine: 0.06 g/L SD; white wine: 0.12 g/L SD</p> |

*Validated by the Australian Wine Research Institute (AWRI), Australia.



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