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Mi455 - Mini-titrator

Visit us at www.TestEquipmentDepot.com

for the determination of FREE & TOTAL SULPHUR DIOXIDE in wine analysis



Mi455 is a user-friendly microprocessor-based mini-titrator for the determination of free and total sulphur dioxide in the process of wine making. This mini-titrator will give you direct readings with a range of 0 to 400 ppm. The instrument comes with a pre-programmed analysis method for free and total sulphur dioxide measurements on wine sample.

Technically, sulphite is a salt or ester of sulfurous acid, but more commonly, sulfur dioxide (SO₂). Sulfite is the most effective and widely used preservative in winemaking. It preserves by safeguarding musts and wines against premature oxidation and microscopic life forms that could otherwise spoil wine. It preserves a wine's freshness, helps maintain its color, and is essential for aging wines beyond their first year without deterioriation. It also inhibits wild yeasts, thereby allowing cultured wine yeasts to dominate the fermentation. Sulfites may be "bound" or "free." Bound SO2 combines with aldehyde compounds, those most responsible for oxidation in wines.

Free SO_2 results from the dissipation of active SO_2 and is the only SO_2 that provides antiseptic and oxidative protection to wines. The most efficient what to add free SO₂ to a must, juice or wine is by adding dissolved potassium metabisulfite to it. The effectiveness of free SO₂ is dependent on the pH of the media to which it is added.

Easy Steps

Prepare the sample to be measured with wine and reagent, push the start button and note the reading.



| Mi455 | Solphur Dioxide Titrator |
|----------------|-----------------------------------|
| Range | 0 to 400 ppm of SO ₂ |
| Resolution | 1 ppm |
| Accuracy | 5% of reading |
| Method | ripper titrimetric method |
| Principle | equivelance point redox titration |
| Sample Volume | 50 mL |
| ORP electrode | MA924B/1 (included) |
| Pump Volume | 0.5 mL/min |
| Stirring Speed | 1500 rpm |
| Environment | 0 to 50°C; max RH 95% |
| Power Supply | 220V/50 Hz; 10VA |
| Dimensions | 208 x 214 x 163 mm |
| Weight | 2.2 Kg |

Accessories

| M1555-001 | Calibration standard, SO ₂ (500 mL pottle) |
|-----------|--|
| Mi555-002 | Titrant SO ₂ (100 mL bottle) |
| Mi555-003 | Alkaline reagent for total SO ₂ , (4 x 100 mL bottle) |
| Mi555-004 | Acid reagent for total SO ₂ , (4 x 100 mL bottle) |
| Mi555-005 | Acid reagent for free SO ₂ , (4 x 100 mL bottle) |
| Mi555-006 | Stabilizer, SO ₂ , (80 pp) |
| MA924B/1 | ORP Electrode |
| MA9011 | Refilling Electrolyte Solution 3.5M KCl, |
| | for ORP electrodes, 230 mL bottle |

MI455 is supplied complete with:
Calibration standard SO₂, Titrat SO₂, Alkaline reagent for total
SO₂, Acid reagent for total SO₂, Acid reagent for free SO₂,
Stabilizer, SO₂, MA924B/1 ORP electrode, small stir bar, 2 x 50
mL beakers, 2 x 25 mL beakers, Refilling Electolyte Solution 3.5M KCI for ORP electrodes 230 mL bottle, test tube set, O-ring, 1 mL

Mi0009 Small stir bars (5 pcs) Mi0020 50 mL beaker (4 pcs) 25 mL beaker (4 pcs)

Ordering Information Mi455 is supplied complete with:

syringe, power cable and instruction manual







