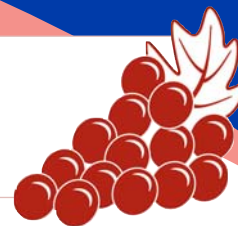




Mi453 - Photometer

for REDUCING SUGARS MEASUREMENT in wine analysis



Mi453 is a user-friendly photometer for monitoring reducing sugars in wine analysis. It will give you direct readings in g/L, with a range of 0.00 to 50.00 g/L.

A reducing sugar is a type of sugar with an aldehyde group. This allows the sugar to act as a reducing agent. Reducing sugars include fructose, glucose, glyceraldehyde, lactose, arabinose and maltose.

The determination of concentration of reducing sugars is one of the most important parameters that need to be measured during the wine making process.

Reducing Sugar is the amount of sugar, both fermentable and unfermentable, left in a wine after fermentation is complete or permanently halted by stabilization. Fermentation is complete when either all the fermentable sugar has been converted by the yeast into alcohol and carbon dioxide as byproducts or when the concentration of alcohol produced reaches a level that is toxic to the yeast and they die. Fermentation is permanently halted by stabilization through several means involving intervention by man.

The range of sugar in wine is different from variety to variety and vintage to vintage.

Step 2

Insert the cuvet in the photometer and note the reading on the LCD.



Step 1

Prepare the sample to be measured and zero the instrument.



Accessories

Mi553-020	Reducing sugars reagent set (20 tests)
Mi0004	Tissue for wiping cuvetts (4 pcs)
Mi0024	1000 μ L pipette (1 pc)
Mi0025	Pipette tips for 1000 μ L pipette (25 pcs)
Mi0026	200 μ L pipette (1 pc)
Mi0027	Pipette tips for 200 μ L pipette (25 pcs)
Mi0008	Filter paper discs (100 pcs)
Mi0001	10 mL glass large cuvetts (2 pcs)
Mi0002	Caps for large cuvetts (2 pcs)
Mi0006	Battery 1.5V AA (4 pcs)

Mi453

Reducing Sugars

Range	0.00 to 50.00 g/L
Accuracy	typical \pm 5%
Resolution	0.25
Light Source	tungsten lamp with narrow band interference filter @ 610 nm
Sensor	silicon photocell
Method	fehling
Environment	0 to 50°C; max RH 95%
Battery Type	4 x 1.5V AA
Auto-off	after 15 minutes of non-use
Dimensions	225 x 85 x 80 mm
Weight	0.5 kg

Ordering Information

Mi453 is supplied complete with: reagents for 20 tests, 1000 μ L pipette, 200 μ L pipette, 25 filter paper, funnel, spoon, 10 mL glass large cuvetts with cap, tissue for wiping cuvetts, 4 x 1.5V AA batteries and instruction manual.

