

Wine testing made easy

The most convenient wine analysis tool available



Contact 03 9555 5500 for more information or email on sentia@grapeworks.com.au



Sentia: a wine analyzer for fast and reliable testing

The Sentia analyzer is the most convenient wine analysis tool available to winemakers, laboratory scientists and cellar hands. Sentia is a portable, hand-held potentiostat that performs electrochemical detection methods, and is currently equipped to test 6 key wine analytes measured during the winemaking process:

- Acetic acid
- Fructose

• Free SO₂

Glucose

- Malic acid
- Titratable acidity



Rapid results for fast decisions



Easy and intuitive for any team member



Hand-held size lets you analyze in the winery



Auto calibrating



Upload results to a PC, tablet or phone via Wi-Fi



Affordable



Touchscreen display



Reproducible results comparable to other test methods



More than 100 tests achievable on a single charge



No hazardous chemicals for safe handling

Sentia device features



- 1. Power button to switch ON/OFF
- 2. Touch screen display for easy operation
- 3. Test strip eject button for mess free disposal
- 4. Test strip port and protective cap for insertion of Sentia test strips and protection of hardware
- 5. USB charge port for charging

How does Sentia work?

Originating from a pedigree of modern POC medical devices designed by Universal Biosensors, Sentia uses the same expertise in healthcare technology to deliver meaningful, accurate and consistent results for the wine industry in just minutes.

Specialized test strips unique to each test method have a series of widely recognized and researched industry common reagents dried down into a small reaction chamber contained within the strip. Once this test strip is inserted into the device and a single drop of sample is applied, the reagents will dissolve and react with the wine, all whilst the device delivers a voltage to the strip electrodes. Electrons are consequently transferred at the strip electrode surface, and the current generated from this exchange of electrons is measured using electrochemical techniques such as squarewave voltammetry and amperometry.

Machine based learning algorithms and calibration parameters generated from industry reference methods are then applied to give you a final result within minutes of sample application.

How to perform a test

With intuitive software designed to guide you through the process step-by-step, testing has never been so easy.



Dec 15 02:10PM 98% 🗺

O White wine

Red wine

Select an analyte for testing

From the home screen, tap on the TEST button. This takes you to the TEST TYPE screen for analyte selection.

Select sample type and name

Sentia will prompt you to select a wine style (red or white) and input sample details.





Select correct strip type and index number

Each analyte has its own unique test strip, and each strip batch an indentifying index number. The index number provides strip calibration data.





Insert strip

Strip arrow markings make the correct orientation simple.

Apply sample

Transfer a single drop ($\geq 8 \ \mu$ L) of sample to the semi-circular 'porch' on the strip. Note: some samples require a dilution step before analysis.



Detection

Results detected within 1-2 minutes for most analytes.

Δ

5

Sentia test strips and diluents

All Sentia strip vials contain 25 strips and should be refrigerated upon receipt. Storage conditions: 2°C - 8°C (35.6°F - 46.4°F).

Acetic Acid Product code: 30730 Monitor wine acetic acid levels in real-time for best prevention of taint formation during storage. High acetic acid levels are associated with microbial spoilage and a vinegar smell and taste. **Specifications:** SENTIA Sample type: red or white wine SENTIA Measuring range: 0.1 to 1.5 g/L **Dilution required:** Yes Time to test one sample: <3.5 minutes Free SO₂ Product code: 30230 wine direct at barrel or tank to prevent microbial and oxidative faults developing. **Specifications:** post-fermentation red Sample type: SENTIA or white wine SENT Measuring range: 3 to 50 mg/L



Malic Acid

Product code:

30430 (strips) 91002 (diluent)

SENTIA

Track the progress of an active malolactic fermentation direct at barrel or tank for real-time malic acid levels.

Specifications:

Sample type:	red or white wine
Measuring range:	0.05 to 5 g/L
Dilution required:	Yes
Time to test one sample:	<1 minute

Analyze free sulfur dioxide levels on post-fermentation

Dilution required: Time to test one sample: No

<1 minute

Residual Sugars (Glu/Fru)

Product code:

30330 (Glu) 30530 (Fru strips) 91004 (Fru diluent)

SENTIA SENTIA Guode Control Sentia Fictore Control Con

Glucose specifications:

Fructose specifications:

· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	
Sample type:	red or white wine	Sample type:	red or white wine
Measuring range:	0.1 to 10 g/L	Measuring range:	0.1 to 10 g/L
Dilution required:	No	Dilution required:	Yes
Time to test one sample:	<1 minute	Time to test one sample:	<2 minutes

Titratable Acidity (pH 7.00 & 8.20)

Product code:

30630

Confidently track the progress of a primary ferment to dryness. Act to mitigate

sluggish or stuck ferments quickly by measuring total residual sugars and the ratio of individual fermentable sugars.



Measure titratable acidity in wine samples to assess acidity levels. Acidity levels in wine impact sensory characteristics.

Specifications:

Sample type:	red or white wine
Measuring range:	3 to 10 g/L
Dilution required:	No
Time to test one sample:	<1 minute

Wine Analyzer Case

SENTI.



90210

This stylish slimline case will protect your Sentia from drops and general wear and tear, while also enhancing its functionality.

The case includes keyboard stylus, removable lanyard and belt clip features, and the bright trim enhances visibility in the winery.

Specifications:

Dimensions:

161.5 x 92 x 41.5 mm (6.36 x 3.62 x 1.63 in) 89 q (3.14 oz)

Weight:





About Universal Biosensors

Universal Biosensors Inc (UBI) is a global biosensor company and a world leader in electrochemical cell technology. UBI's ambition is to utilize its patented biosensor technology to develop a diverse range of biosensor test strips used in our hand-held portable analyzers; for cost effective, effortless, and accurate detection of analytes of interest, within many industries including human health, animal health, environmental, and agriculture. UBI is a USA Delaware company listed on the Australian Securities Exchange (ASX:UBI) and operates from its head office, manufacturing facility, and research laboratory in Melbourne, Victoria, Australia.



Contact Grapeworks on **03 9555 5500** or email info@grapeworks.com.au **Grapeworks.com.au**

Universal Biosensors[™], Sentia[™] logos, product and service names, designs, and slogans are trademarks of Universal Biosensors Pty Ltd and may not be used without the prior written permission of Universal Biosensors Pty Ltd. All other names, logos, product and service names, designs, and slogans are the property of their respective owners.