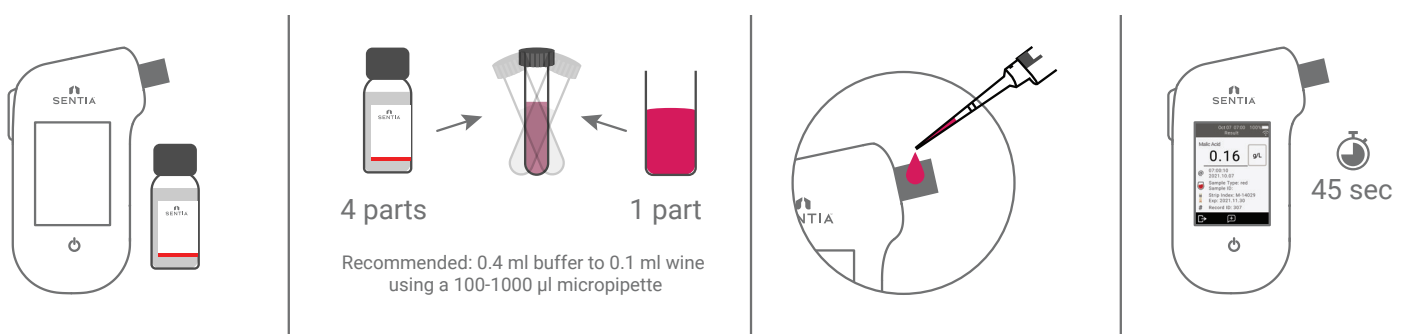




Measure malic acid in less than a minute

The ability to accurately monitor malic acid during malolactic fermentation is a crucial tool to prevent microbial growth and ensure wine stability. With Sentia, it's never been easier.

After a simple 1 in 5 pre-dilution with the Sentia malic acid buffer, in less than a minute you'll have an accurate and reliable malic acid result.



- Fast and reliable results, allowing for the tracking of malic acid in just 45 seconds
- No multiple pipetting of reagents or reagent preparation, resulting in reduced user error
- No time wasted performing calibrations and blank tests
- Fewer plastic consumables required, making Sentia environmentally and cost friendly
- No annual maintenance
- Automatic calculation - no spreadsheets or further processing required
- Small sample volume required - minimum 8 μ l

A validation study at the Australian Wine Research Institute (December 2021)

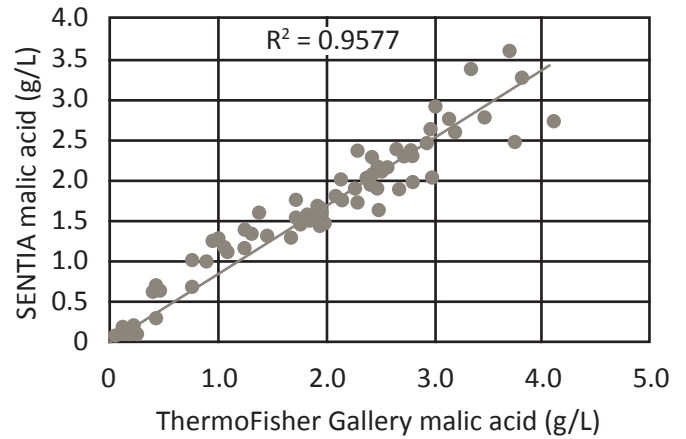
The below validation study conducted at the Australian Wine and Research Institute compares the Sentia malic acid test strip against a NATA accredited reference method for L-malic acid on the ThermoFisher Gallery.

Regression Statistics

Observations	107
Standard error	0.25 g/L
Coefficient of determination (R ²)	0.96

Repeatability

Range	Standard Deviation	Coefficient of Variation
0.05 – 1 g/L	0.03	-
1.01 – 5 g/L	-	5%



How does Sentia compare to other malic acid methods?

	SENTIA	Benchtop Enzymatic Kit	External Laboratory	Discrete Analysers	FTIR Units
Cost per test	\$6.00 USD	\$4.00 USD	\$26.00 USD	\$0.30 USD	\$0.25 USD
Time per test	45 seconds	15 minutes	1-2 working days	10 minutes	1 minute
Reagents per test	One	4-5	N/A	4-5	None
Equipment required	<ul style="list-style-type: none"> • SENTIA device • Micro-pipette 	<ul style="list-style-type: none"> • Spectrophotometer • 2 x Micro-pipettes 	N/A	<ul style="list-style-type: none"> • Discrete Analyser 	<ul style="list-style-type: none"> • FTIR Unit
Equipment cost	\$1,950 USD	\$2,500 USD	N/A	\$18,000-\$100,000 USD	\$50,000-\$180,000 USD
Annual equipment maintenance required?	No	Yes	N/A	Yes (~\$5,000 USD per year)	Yes (~\$5,000 USD per year)
Plastic consumables required per test	<ul style="list-style-type: none"> • Test tube • Pipette Tip 	<ul style="list-style-type: none"> • Cuvettes • Pipette tips • Test tube • Parafilm 	N/A	<ul style="list-style-type: none"> • Cuvettes • Sample cups 	<ul style="list-style-type: none"> • Sample cups
Plastic consumables cost per test	\$0.15 USD	\$0.25 USD	N/A	\$0.35 USD	\$0.15 USD
Calibration required?	No	No	N/A	Yes	Yes
Blank test required?	No	Yes	N/A	No	No
Automatic result calculation?	Yes	No	N/A	Yes	Yes