

Uncertainty of Measurement (expressed as 95% confidence interval)

Method #	NATA Method	Range	UOM (95% CI)
LM02	Total Dry Extract - calculation	All	± 2 g/L
LM04	pH – autotitrator / electrode	All	± 0.05
LM04	Total acid – autotitrator / electrode	All	± 0.1 g/L
LM06	Iron	< 2.0 mg/L	± 0.2 mg/L
LM06	Iron	> 2.0 mg/L	± 10%
LM06	Copper	< 1.00 mg/L	± 0.05 mg/L
LM06	Copper	> 1.00 mg/L	± 5%
LM06	Potassium	< 500 mg/L	± 25 mg/L
LM06	Potassium	> 500 mg/L	± 5%
LM06	Sodium	< 80 mg/L	± 4 mg/L
LM06	Sodium	> 80 mg/L	± 5%
LM06	Calcium	< 100 mg/L	± 5 mg/L
LM06	Calcium	> 100 mg/L	± 5%
LM09	Free & Total Sulphur Dioxide – aspiration	< 60 mg/L	± 3 mg/L
LM09	Free & Total Sulphur Dioxide – aspiration	> 60 mg/L	± 5%
LM10	Volatile acidity – Steam distillation	All	± 0.04 g/L
LM13	Alcohol – NIR	8.0 – 16.0% v/v	± 0.1% v/v
LM15	Sorbic acid	< 80.0 mg/L	± 4.0 mg/L
LM15	Sorbic acid	> 80.0 mg/L	± 10%
LM16	Anthocyanin Diglucoside	All	N/A
LM23	Alcohol – distillation / densitometry	All	± 0.1% v/v
LM24	Specific gravity – density meter	All	± 0.0002 g/cm ³
LM28	Acetic acid – WineScan	0.16 – 1.00 g/L	± 0.05 g/L
LM28	Acetic acid – WineScan	1.00 – 1.34 g/L	± 5%
LM28	Alcohol – WineScan	10.5 – 16.5% v/v	± 0.1% v/v
LM28	pH – WineScan	2.96 – 3.80	± 0.05
LM28	Total acid at pH 7.0 – WineScan	4.36 – 7.66 g/L	± 0.1 g/L
LM28	Total acid at pH 8.2 – WineScan	4.84 – 8.15 g/L	± 0.1 g/L
LM28	Specific gravity – WineScan	0.9898 – 1.0000	± 0.0002
LM28	Glucose/Fructose – WineScan	< 6.0g/L	± 0.3 g/L
LM28	Glucose/Fructose – WineScan	6.0 – 30.0 g/L	± 5%
LM29	Free & Total Sulphur Dioxide – FIA	< 60 mg/L	± 3 mg/L
LM29	Free & Total Sulphur Dioxide – FIA	> 60 mg/L	± 5%
LM31	Acetic acid – enzymatic Daytona	< 1.00 g/L	± 0.05 g/L
LM31	Acetic acid – enzymatic Daytona	> 1.00 g/L	± 5%
LM31	Glucose/Fructose – enzymatic Daytona	< 1.00 g/L	± 0.05 g/L
LM31	Glucose/Fructose – enzymatic Daytona	> 1.00 g/L	± 5%
LM31	Malic acid – enzymatic Daytona	< 1.00 g/L	± 0.05 g/L
LM31	Malic acid – enzymatic Daytona	> 1.00 g/L	± 5%
LM31	Citric acid – enzymatic Daytona	< 1.00 g/L	± 0.05 g/L
LM31	Citric acid – enzymatic Daytona	> 1.00 g/L	± 5%
LM32	Reducing sugar – Rebelein	< 40.0 g/L	± 0.5g/L
LM32	Sucrose – Rebelein	< 40.0 g/L	± 0.5g/L
LM32	Sugar content total – Rebelein	< 40.0 g/L	± 0.5g/L

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Method #	non-NATA Method	Range	UOM (95% CI)
GM03	Brix	All	± 0.2 °
GM08	Ascorbic acid – HPLC	< 80 mg/L	± 4 mg/L
GM08	Ascorbic acid – HPLC	> 80 mg/L	± 5 %
GM09	Citric acid – HPLC	All	± 10%
GM09	Tartaric acid – HPLC	All	± 10 %
GM09	Glucose – HPLC	All	± 10%
GM09	Malic acid – HPLC	All	± 10%
GM09	Fructose – HPLC	All	± 10%
GM09	Succinic – HPLC	All	± 10%
GM09	Lactic acid – HPLC	All	± 10%
GM09	Glycerol – HPLC	All	± 10%
GM09	Acetic acid – HPLC	All	± 10%
GM14	Heat stability	< 1.00 NTU	± 0.10 NTU
GM14	Heat stability	> 1.00 NTU	± 10%
GM18	Malvidin Diglucoside	All	± 5% mg/L
GM23	Total Phenolics	All	± 0.03 a.u
GM23	Total Hydroxycinnamates	All	± 0.17 mg/L CAE
GM23	Flavanoids	All	± 0.03 a.u
GM23	Relative Brown colour	All	± 5% a.u
GM36	Turbidity	< 1.00 NTU	± 0.05 NTU
GM36	Turbidity	> 1.00 NTU	± 5%
GM37	Laccase activity	N/A	N/A
GM38	Sucrose	< 2.0 g/L	± 0.1 g/L
GM38	Sucrose	> 2.0 g/L	± 5%
GM43	Pinking colour	All	± 2
GM43	Pinking susceptibility	All	± 2
GM43	Pinking precursor	All	± 6
GM56	Extraction strength	All	± 10% N
GM62	Grape colour	< 1.00 mg/g	± 0.10 mg/g
GM62	Grape colour	> 1.00 mg/g	± 10%
GM62	Grape Phenolics	< 1.00 a.u/g	± 0.10 a.u/g
GM62	Grape Phenolics	< 1.00 a.u/g	± 10%
GM101	MCP Tannin assay	All	± 10% mg/L
GM106	Ammonia – enzymatic Daytona	< 100 mg/L	± 5 mg/L
GM106	Ammonia – enzymatic Daytona	> 100 mg/L	± 5%
GM106	Alpha Amino Nitrogen – enzymatic Daytona	< 100 mg/L	± 5 mg/L
GM106	Alpha Amino Nitrogen – enzymatic Daytona	> 100 mg/L	± 5%
GM107	Tannin	All	± 0.16 g/L
GM107	Colour Density	All	± 5 % a.u
GM107	Hue	All	± 5%
GM107	Chemical age 1	All	± 5%
GM107	Chemical age 2	All	± 5%

Method #	non-NATA Method	Range	UOM (95% CI)
GM107	Anthocyanin	All	± 10% mg/L
GM107	Non-bleachable pigment	All	± 5% a.u
GM107	Total pigment	All	± 5% a.u
GM107	Non-bleachable pigment %	All	± 5%
GM107	Total Phenolics	All	± 10% a.u
GM110	Dissolved Oxygen – Orbisphere	< 0.4 mg/L	± 0.04 mg/L
GM110	Dissolved Oxygen – Orbisphere	> 0.4 mg/L	± 10%
GM111	Carbon Dioxide – Orbisphere	All	± 10% g/L
GM112	Glycerol	< 2.0 g/L	± 0.1 g/L
GM112	Glycerol	> 2.0 g/L	± 5%
GM113	Lactic acid	< 1.0 g/L	± 0.05 g/L
GM113	Lactic acid	> 1.0 g/L	± 5%
GM117	Tartaric acid – HPLC	All	± 5%
GM130	Filterability Index	All	± 0.1