

Chemical, Biological and Forensic Laboratory

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**Final Test Report**

Quotation Number: [SOQ00002331](#) Purchase Order: [Cash](#)
Job No. [JOB00010285](#) Report No. [JOB00010285-1A](#)

Sample Information

Sample Description: [Wood Vinegar](#) Number of samples: [2](#)
Date samples received: [2025/11/06](#)
Date samples reported: [2025/12/05](#)

Laboratory Environmental Conditions

Temperature: [11-30°C](#) Relative Humidity: [NA](#)

Results of Laboratory Analysis

Sample ID: [JOB00010285X001](#) Sample Name: [Bamboo WV](#)

| Service Code | Retention Time (min) | Parameters | Results | Units | Method |
|--------------|----------------------|---------------------------|---------|--------|--------|
| YPGC-0215 | 1.37 | Ethylene Oxide | 1.14 | % Area | GCMS |
| | 3.17 | Acetone | 4.24 | % Area | |
| | 3.78 | Methyl Acetate | 7.37 | % Area | |
| | 5.86 | Vinyl Acetate | 4.74 | % Area | |
| | 6.11 | 2-Butanone | 4.04 | % Area | |
| | 8.04 | Acetic Acid | 17.36 | % Area | |
| | 8.53 | 3-Penten-2-one | 2.21 | % Area | |
| | 8.91 | 2-Pentanone | 1.48 | % Area | |
| | 9.16 | 2,3-Pentanedione | 2.47 | % Area | |
| | 12.35 | Cyclopentanone | 1.48 | % Area | |
| | 13.42 | Furfural | 6.04 | % Area | |
| | 13.63 | Cyclopentenone | 1.90 | % Area | |
| | 14.96 | 2-Methyl-2-Cyclopentenone | 1.35 | % Area | |
| 14.96 | Acetylfuran | 1.35 | % Area | | |

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| Sample ID: | JOB00010285X001 | Sample Name: | Bamboo WV | | |
|--------------|-----------------|--------------------------|-----------|--------|--------|
| Service Code | Retention time | Parameters | Results | Units | Method |
| YPGC-0215 | 16.01 | Phenol | 2.29 | % Area | GC/MS |
| | 16.11 | 5-Methylfurfural | 2.02 | % Area | |
| | 17.42 | 2-Methylphenol | 1.90 | % Area | |
| | 17.74 | 3-Methylphenol | 2.17 | % Area | |
| | 18.36 | 2-Methoxyphenol | 2.74 | % Area | |
| | 19.02 | 2,4 Dimethyl Phenol | 1.15 | % Area | |
| | 19.97 | 2-Methoxy-4-Methylphenol | 1.63 | % Area | |
| | 21.26 | 4-Ethyl-2-Methoxyphenol | 0.72 | % Area | |
| | Unknowns | 28.21 | % Area | | |

Notes: The samples were analysed using headspace Gas Chromatography Mass spectrometry. The reported parameters were identified using the NIST Library and only items greater than 80% fit to the library are reported. The area % obtained in the chromatogram is reported for each component but this does not reflect the actual concentration of each parameter. It is merely an estimate based on areas and not reference standards

Explanatory Notes

- (a) Where the concentration of a parameter is less than the limit of detection (LOD) of the method, it will be indicated as < the LOD value. Detection limits are reported with a 95% confidence level.
- (b) Measurement uncertainty is reported where available and with a coverage factor of k=1. Uncertainty values are reported in the same unit as the result.
- (c) Method uncertainties are provided at the request of the client.

Opinions and Interpretations

None

APPROVAL RECORD**Compiled By:**

BL Hickman Mosdell (Belinda)

Checked by:

MG Mukwevho (George)

Authorised By:

A Mofokeng (Abram)

Senior Technologist

Section Head: Organics

Laboratory Manager: CBF

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Appendix

Details of Method and Responsible Analyst

| Method | Date Analysed | Analyst | Authoriser |
|--------|---------------|---------------------------------|----------------------|
| GC/MS | 2025/11/25 | BL Hickman Mosdell (Belinda) | MG Mukwevho (George) |
| | | | |
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