

Certificate of Analysis - E25-00-3542

Client:	Landtasia Organic Farms	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	PO 6-1210	Request ID:	EAL /E25-00-3542
Number of samples:	1	Report ID:	E25-00-3542_EALS1_1
Date samples received:	02 April 2025	Issue date:	29 April 2025

Authorised by:	Brian Smith
Position:	Senior Technical Officer



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

Request ID: EAL/E25-00-3542 Report ID: E25-00-3542_EALS1_1 Issue date: 29 April 2025

Client Sample ID:				50040 windrow 7	---
Sample Date:				31 March 2025	---
EAL Sample ID:				E25-00-3542-0001	AS4454:2012 Composted Product
Parameter	Unit	Method Reference	LOR	---	---
Wet Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.66	---
Dry Bulk Density	kg/L	** AS4454:2012 Appendix J	---	0.32	---
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	51	>25
pH	---	** AS4454:2012 Appendix B	---	8.16	>5
Electrical Conductivity	dS/m	** AS4454:2012 Appendix B	---	1.60	<10
Total Organic Carbon	%	Inhouse S15b	<0.10	27.4	≥20
Organic Matter	%	Inhouse S15b	---	46.5	---
TOC/TN	---	Inhouse S15b	---	18.4	---
Total Carbon	%	Inhouse S4a	<0.02	27.4	≥20
Total Nitrogen	%	Inhouse S4a	<0.02	1.49	≥0.8 See Notes
Ammonium Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	5.35	<200
Ammonium Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	26.8	---
Nitrate Nitrogen	mg/L N	** AS4454:2012 Appendix B	---	4.55	---
Nitrate Nitrogen	mg/kg N	** AS4454:2012 Appendix B	<0.5	22.8	≥10 See Notes
Ammonium/Nitrate Ratio	Ratio	** AS4454:2012 Appendix B	---	1.18	<3.0
Phosphate Phosphorus	mg/L P	** AS4454:2012 Appendix B	---	8.81	≤5 See Notes
Phosphate Phosphorus	mg/kg P	** AS4454:2012 Appendix B	<0.5	44.1	---
Nitrogen Drawdown Index	---	** AS4454 Appendix O	>1	0.42	>0.2
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.16	---
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	2.19	---
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.41	---
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.90	---
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.05	<1
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.28	≤0.1 See Notes
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	147	<300
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	431	---
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	9000	---
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	30.8	<150
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	27.4	<100
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	1740	---
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4810	---
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	2.16	---
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4.64	---
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	0.81	<5
Cadmium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	< 0.5	<1
Lead	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	15.9	<150
Arsenic	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	4.62	<20
Chromium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	15.0	<100
Nickel	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	7.08	<60
Mercury	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.1	< 0.1	<1

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Parameter	Unit	Method Reference	LOR	---	---
Silver	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<1	< 1	---
Symbio Report No.	---	** Subcontracted Symbio	---	B1805616	---
Polychlorinated Biphenyls	mg/kg	** Subcontracted Symbio	---	<0.1	<0.2
Symbio Report No.	---	** Subcontracted Symbio	---	B1805616	---
Organochlorine Pesticides- DDT, DDD, DDE	mg/kg	** Subcontracted Symbio	---	<0.02	<0.5
Organochlorine Pesticides - Other	mg/kg	** Subcontracted Symbio	---	<0.02	<0.02
Symbio Report No.	---	** Subcontracted Symbio	---	B1803001-A	---
Salmonella spp.	/25g	** Subcontracted Symbio	<0	ND	Absent in 25 g
Symbio Report No.	---	** Subcontracted Symbio	---	B1803001-A	---
Escherichia coli	MPN/g	** Subcontracted Symbio	---	<3.0	<100 MPN/g
Symbio Report No.	---	** Subcontracted Symbio	---	B1803001-A	---
Faecal Coliforms	MPN/g	** Subcontracted Symbio	---	<3.0	<1000 MPN/g
Particle Size Grading > 16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	< 0.01	See Notes
Particle Size Grading 5–16 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	14.9	See Notes
Particle Size Grading < 5 mm Sieve	%	** AS4454:2012 Appendix G	<0.01	85.1	See Notes
Plastics Light Flexible or film > 5 mm	%	** AS4454:2012 Appendix I	<0.01	< 0.01	≤0.05
Stones and Lumps of Clay > 5 mm	%	** AS4454:2012 Appendix I	<0.01	2.79	≤5
Glass, metal and rigid plastics > 2 mm	%	** AS4454:2012 Appendix I	<0.01	0.18	≤0.5
Wettability (min)	---	** AS4454:2012 Appendix E	---	>5min	<5
Neutralising Value	% CaCO ₃	** Inhouse S14	<0.01	3.21	---
Plant Growth Test - Root Elongation	mm	** AS4454:2012 Appendix F	---	63.6	>60
Viable Plant Propagules (7 days)	---	** AS4454:2012 Appendix M	---	Nil	---
Viable Plant Propagules (21 days)	---	** AS4454:2012 Appendix M	---	Nil	Nil after 21 days

Notes:

- Conversions to kg/ha = mg/kg x 2.24.
- The chloride estimate result (Electrical Conductivity x 640) is considered an estimate, and is generally an over-estimate.
- Total Acid Extractable Nutrients indicate a store of nutrients.
- Total Phosphorus guide only to be used if a product claims to be used for phosphorus sensitive plants.
- Nitrate guide only to be used if a product claims to contribute to plant nutrition.
- The full propagule test observes the potential growth of viable plant propagules in a 21 day test period. In order to pass there should be Nil after 21 days.
- Other Organochlorines include: Aldrin, Dieldrin, Chlordane, Heptachlor, HCB, Lindane, BHC
- LOR' means less than limit of reporting. 'ND' means not detected. 'NA' means not applicable. 'NR' means not requested.
- Analysis completed in a NATA accredited laboratory.
- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Indicative guidelines are based on those in AS4454:2012 for raw mulches, pasteurized product, composted product, mature composts.

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Notes:

- Methods from AS4454:2012 Composts, soil conditioners and mulches.
- Conversions for 1 mg/kg = 1 ppm 1 % = 10,000 ppm.
- Coarse Mulch: > 70% of sample is > 16 mm. Fine Mulch: 20% of sample is > 16 mm and 20% is 5 mm. Soil Conditioner: 20% of sample is > 16 mm.