

Fertiliser Pellets - Certificate of Analysis - E25-00-5010

Client:	Bio Ignite Fertilizers Pty Ltd	Laboratory:	Environmental Analysis Laboratory
Contact:	John Lathouris	Contact:	EAL Customer Service Team
Address:	PO Box 141, BUNDABERG, QLD 4670, Australia	Address:	Military Road, East Lismore NSW 2480, Australia
Telephone:	0418 988 985	Telephone:	(02) 6620 3678
Email:	johnlath@bigpond.com	Email:	eal@scu.edu.au

Customer reference:	BIOIG S2 - A & S-100-G	Request ID:	EAL/E25-00-5010
Number of samples:	2	Report ID:	E25-00-5010_EALS1_2
Date samples received:	09 May 2025	Issue date:	27 May 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.
Received on 05/05/2025

Certificate of Analysis

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				Client Sample ID:	S2-A	---
				EAL Sample ID:	E25-00-5010-0001	AS4454:2012 Composted Product
Parameter	Unit	Method Reference	LOR	---	---	---
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	12	>25	
pH	---	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	6.69	>5	
Electrical Conductivity	dS/m	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	10.7	<10	
Total Carbon	%	Inhouse S4a	<0.03	38.3	≥20	
Total Nitrogen	%	Inhouse S4a	<0.02	3.63	≥0.8 See Notes	
Carbon / Nitrogen Ratio	---	Inhouse S4a	<0.1	10.6	---	
Organic Matter	%	Inhouse S4a	---	65.2	---	
Sulfur	%	** ICPOES Total S - Compost	<0.01	0.65	---	
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	2.89	---	
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.82	---	
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	2.20	---	
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.66	<1	
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	1.83	≤0.1 See Notes	
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	563	<300	
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	712	---	
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	3970	---	
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	156	<150	
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	46.6	<100	
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	1330	---	
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	1370	---	
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	11.3	---	
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	2.22	---	
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	1.70	<5	
Nitrogen : Sulfur Ratio	---	** Calculation	<0.1	5.5	---	
Nitrogen : Phosphorus Ratio	---	** Calculation	<0.1	2.0	---	
Nitrogen : Potassium Ratio	---	** Calculation	<0.1	1.7	---	

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.
- 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 a composted product.
- Methods from Rayment and Lyons, 2011. Soil Chemical Methods - Australasia. CSIRO Publishing, Collingwood.

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Notes:

- All analysis is on a dry weight (DW) basis - testing conducted on finely ground sample dried at 40 °C, with results corrected to 105 °C.
- Conversions for 1 mg/kg = 1 ppm 1 % = 10,000 ppm.