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

Request ID: EAL/E25-00-5010 Report ID: E25-00-5010_EALS1_2 Issue date: 27 May 2025

				Client Sample ID:	S-100-G	---
				EAL Sample ID:	E25-00-5010-0002	AS4454:2012 Composted Product
Parameter	**Unit**	**Method Reference**	**LOR**	**---**	**---**
Moisture Content 105°C	%	** AS4454:2012 Appendix I	<0.1	9.4	>25
pH	---	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	6.41	>5
Electrical Conductivity	dS/m	** Rayment & Lyons 2011 - 4A1 & 3A1 (1:5 Water)	---	19.0	<10
Total Carbon	%	Inhouse S4a	<0.03	33.7	≥20
Total Nitrogen	%	Inhouse S4a	<0.02	5.64	≥0.8 See Notes
Carbon / Nitrogen Ratio	---	Inhouse S4a	<0.1	5.97	---
Organic Matter	%	Inhouse S4a	---	57.2	---
Sulfur	%	** ICPOES Total S - Compost	<0.01	1.18	---
Calcium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	3.27	---
Magnesium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.85	---
Potassium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	3.34	---
Sodium	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	0.65	<1
Phosphorus	%	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.01	2.19	≤0.1 See Notes
Zinc	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	538	<300
Manganese	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	793	---
Iron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	5370	---
Copper	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	130	<150
Boron	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<2	39.9	<100
Silicon	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<50	1270	---
Aluminium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	1530	---
Molybdenum	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.2	10.8	---
Cobalt	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	---	1.93	---
Selenium	mg/kg	** 1:3 Nitric:HCl - APHA 3125 ICPMS	<0.5	1.32	<5
Nitrogen : Sulfur Ratio	---	** Calculation	<0.1	4.8	---
Nitrogen : Phosphorus Ratio	---	** Calculation	<0.1	2.6	---
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.

Certificate of Analysis

Request ID: EAL/E25-00-5010 Report ID: E25-00-5010_EALS1_2 Issue date: 27 May 2025

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.