

THE BEST ON EARTH

JOHN FERGUSON

Soil Consultant

188 Moorina Road
MOORINA QLD 4506

ABN 32 301 342 486

Telephone: (07) 5496 7037
Fax: (07) 5497 0069
Mobile: 0418 989 802

3 July 2015

Report To: G & C Whitby
Beyond Worms

Reference: Laboratory Analysis on Worm Products

Dear Sir/Madam

The samples of worm products from your production factory, along with the attached laboratory reports on nutrient content and microbial life counts, have been carefully considered and the following points noted.

The nutrient analysis of the two products are at a consistently high balanced level that will be of advantage to all types of farm and garden plants and crops, along with lawn and pasture grass and trees, including all fruit and nut types, to landscape shrubs.

Both products contain high levels of good microbial life with almost nil harmful or undesired life.

Some of the benefits of this type of product is that it is a totally natural material which is free from heavy metals, chemical residue and high salt content as is found in so many fertiliser products, along with the fact that during the production process, the worms have broken down all the nutrients to a stage where it is instantly available to the plant to take up and use.

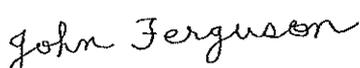
When used as a foliar application, the nutrient and microbes are working in the plant system within twenty minutes of being applied which is a big advantage when used during a stress time for plants such as excess heat, cold, drought, lack of sunshine, or insect and disease attack.

The solid vermicast can be used as a stand-alone fertiliser, or in conjunction with other products, as it is totally compatible. It is a major benefit as an additive to improving seed raising mixes, potting mixes and blended garden soils.

The liquid in its manufactured form is a very gentle product that will not harm or burn even the most sensitive plant when used raw. However, for general use, water should be added to it prior to use so that a more even coverage is obtained over the total plant and down into the soil.

The dark bronze colour of this product is an indication that the worms have fully completed their work of breaking the original feed material down, removing all solid matter and impurity out of it and is now 100% liquid worm fertiliser.

Regards



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Laboratory Report To: Beyond Worms
Location: Production Factory
Sample Submitted By: G & C Whitby
Date Sampled: 24/06/2015
Laboratory No.: 5305
Sample Type: Vermi-Liquer

LABORATORY ANALYSIS				
Appearance		Good	Chloride	mg/L 3.50
Colour		Good	Sodium	mg/L 12.00
Odour		Nil	Sulphate	mg/L 49.00
Nitrogen	Total %	5.10	Boron	mg/L 33.00
Phosphorous	%	2.65	Aluminium	mg/L Nil
Potassium	%	3.00	pH Units	6.90
Calcium	mg/L	1,800.00	Conductivity	uSm/cm 4.32
Magnesium	mg/L	300.00	Carbon	mg/L 78.00
Zinc	mg/L	390.00	Molybdenum	mg/L 10.00
Copper	mg/L	128.00	Sedimentation	mg/L Nil
Iron	mg/L	190.00	Silica	mg/L 19.00
Manganese	mg/L	120.00	Calcium/Magnesium Ratio	6.0/l

"Trace" or "<" - symbol indicates a level below an acceptable laboratory reading

Colour Code of Material: Dark bronze.

Bacteria Plate Count: 11.2 million colony forming units per each milligram of product.

Remarks:

This "Vermi-Liquer" is evenly balanced with all of the required nutrients and active microbial life for maximum plant growth and is suitable to use as a foliar application, or a soil drench.

Signature: *John Ferguson*

Date: 3 July 2015

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ORGANIC BIOMASS RESULTS OF MICROBIAL READINGS					
Type Of Biomass	Reading ug/ml	Desired Range	Protozoa	Total No ml	Desired Range
Active Bacterial Biomass	350	100-400	Flagellates	16,000	10,000+
Total Bacterial Biomass	790	300-700	Amoebae	18,000	10,000+
Active Fungal Biomass	4.5	2-10	Ciliates	70	20-80
Total Fungus Biomass	10.0	5-20			

Hyphal Diameter (um) 2.5. This indicates a mixture of actinobacteria and ascomycetes species which is suitable for all types of plants.

Microscopic microbial viewing of a prepared slide of the above material.

Numbers reported as per Laboratory Reading Scale of 0 to 20 plus.

Nitrogen Fixing Bacteria	General Bacteria	Fungi	Decomposers	Growth Promoters	Desirable Species	Undesirable Species
16	20+	20	20	20+	20+	<1

Remarks:

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Laboratory Report To: Beyond Worms
Location: Production Factory
Sample Submitted By: G & C Whitby
Date Sampled: 24/06/2015
Laboratory No.: 5306
Sample Type: Vermicast Solids

LABORATORY ANALYSIS

Appearance	Good	Chloride	mg/L	1.60	
Colour	Good	Sodium	mg/L	11.80	
Odour	Nil	Sulphate	mg/L	55.00	
Nitrogen	Total %	Boron	mg/L	36.00	
Phosphorous	%	Aluminium	mg/L	Nil	
Potassium	%	pH Units		7.20	
Calcium	mg/L	2,090.00	Conductivity	uSm/cm	4.20
Magnesium	mg/L	320.00	Carbon	mg/L	290.00
Zinc	mg/L	410.00	Molybdenum	mg/L	18.00
Copper	mg/L	126.00	Sedimentation	mg/L	Nil
Iron	mg/L	230.00	Silica	mg/L	53.00
Manganese	mg/L	140.00	Calcium/Magnesium Ratio		6.5/l

"Trace" or "<" - symbol indicates a level below an acceptable laboratory reading

Colour Code of Material: Dark brown.

Bacteria Plate Count: 15 million colony forming units per each gram of product.

Remarks:

This product is ideal to be used as a solid fertiliser around plants and trees or broadcast as a general farm, garden or lawn fertiliser or side dressing of row crops. It is also a good additive for blended garden soils, potting mixes and as a seedling starter.

It would be an excellent base product when brewing compost liquids because of its good balance of nutrients and the high number of species of microbial life which will multiply greatly in numbers during a suitable brewing process.

Signature:

John Ferguson

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ORGANIC BIOMASS RESULTS OF MICROBIAL READINGS					
Type Of Biomass	Reading ug/ml	Desired Range	Protozoa	Total No ml	Desired Range
Active Bacterial Biomass	450	100-400	Flagellates	22,000	10,000+
Total Bacterial Biomass	910	300-700	Amoebae	19,000	10,000+
Active Fungal Biomass	8.1	2-10	Ciliates	80	20-80
Total Fungus Biomass	17.0	5-20			

Hyphal Diameter (um) 2.8. This indicates mainly ascomycetes species which is suitable for all types of plants.

Microscopic microbial viewing of a prepared slide of the above material.

Numbers reported as per Laboratory Reading Scale of 0 to 20 plus.

Nitrogen Fixing Bacteria	General Bacteria	Fungi	Decomposers	Growth Promoters	Desirable Species	Undesirable Species
20	20+	20+	20+	20+	20+	<1

Remarks:

Signature: *John Ferguson*

Date: 3 July 2015