

Name: **YLAD**

Sample: **Compost**

Analysis no.: **1239-1**

Date: **24-08-16**

**Customer name**

YLAD

**Date received**

24-08-16

**Client name**

YLAD

**Agent**

Microbiology Laboratories A

**Sample name**

Compost

**Advisor**

Dr Maria Manjarrez

**Crop**

Compost

**Authorised by**

Dr Maria Manjarrez

**Date sampled**

23-08-16

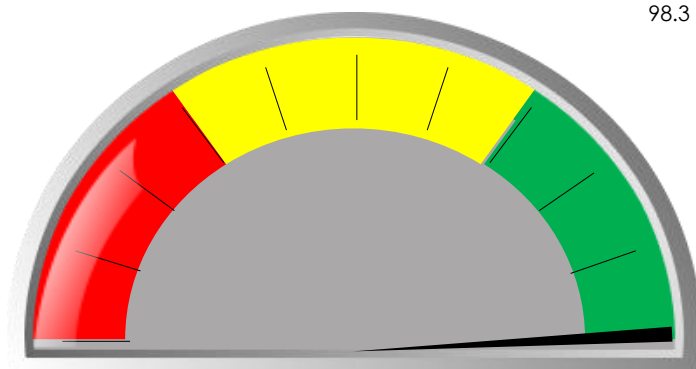
**Analysis no.**

1239-1

## Compost Indicators

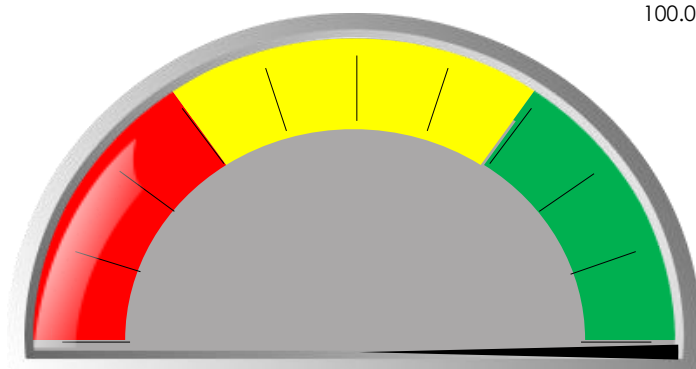
### Microbial Maturity

98.3

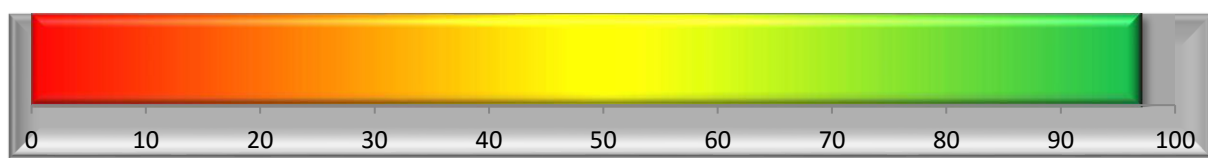


### Disease Suppression

100.0



### Overall Microbial Balance



For more information about these indicators visit us at [www.microbelabs.com.au](http://www.microbelabs.com.au)

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## Key Microbe Groups

Group	Biomass (mg/kg)	
	Yours	Guide
<b>Total microorganisms</b>	<b>320.1</b>	50.0
<b>Total bacteria</b>	<b>47.1</b>	15.0
<b>Total fungi</b>	<b>267.3</b>	33.8
<b>Bacteria</b>		
Pseudomonas	<b>8.108</b>	1.000
Actinomycetes	<b>1.266</b>	1.000
Gram positive	<b>25.984</b>	4.000
Gram negative	<b>21.100</b>	11.000
Methane oxidisers	<b>BDL*</b>	0.500
Sulphur reducers	<b>BDL*</b>	< 0.005
True anaerobes	<b>1.122</b>	< 0.005
<b>Eukaryotes</b>		
Protozoa	<b>5.719</b>	1.250
Mycorrhizal fungi (including VAM)	<b>27.716</b>	10.000

Useful indicators	Yours		Guide
	Yours	Guide	
<b>Microbial diversity</b>	<b>72.8</b>		80.0
<b>Fungi : Bacteria</b>	<b>5.7</b>		2.3
<b>Bacterial stress</b>	<b>0.5</b>		< 0.5
<b>Compost maturity</b>	<b>98.3</b>		80.0
<b>Disease suppression</b>	<b>100.0</b>		80.0
<b>Nutrients held in microbes</b>	Concentration (mg/kg)		
	Yours	Guide	
Nitrogen (N)	<b>18.084</b>		3.450
Phosphorus (P)	<b>9.603</b>		1.500
Potassium (K)	<b>3.201</b>		0.500
Sulphur (S)	<b>3.201</b>		0.500
Calcium (Ca)	<b>3.201</b>		0.250
Magnesium (Mg)	<b>3.201</b>		0.250
Carbon (C)	<b>146.687</b>		22.688
<span style="color: red; font-weight: bold;">Poor</span> <span style="color: orange; font-weight: bold;">Fair</span> <span style="color: green; font-weight: bold;">Good</span>			

### Comments

Total microbial biomass was very good. Biomasses of other key desirable microbial groups were also very good, including Mycorrhizal fungi (VAM) and Protozoa. VAM fungi require a living plant host to survive, so their presence here is a plus. Protozoa often appear after composts have aged for some time, and their presence here is an indication of maturity. The Fungi to Bacteria ratio was elevated compared to the guide, but this may be advantageous if the aim was to produce a fungi-dominated compost. Microbial diversity was good. True anaerobes were elevated, which may be indicative of lack of aeration or excessive watering. These results indicate that this compost would be an excellent amendment, particularly to soils with low fungi.

### Explanations

The Microbe Wise test measures the biomasses of key microbial groups directly from your sample. It uses molecular ('DNA type') technology to analyse the unique cell membrane 'fingerprint' of each microbe type to identify and quantify key groups important to compost and soil processes. This method is more accurate and precise than other methods, such as direct microscopy or plate culture, because it uses chemical extraction to remove the maximum amount of microbial material from the sample and is repeatable to 0.01% between replicate analyses. It measures organisms that are alive or recently dead (within a few days). Always compare your results with a control sample. Guide values are included as a help, but because a large number of factors affect microbiology the guide levels may not be optimal for your specific conditions. Visit [www.microbelabs.com.au](http://www.microbelabs.com.au) for more information.

### Disclaimer

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