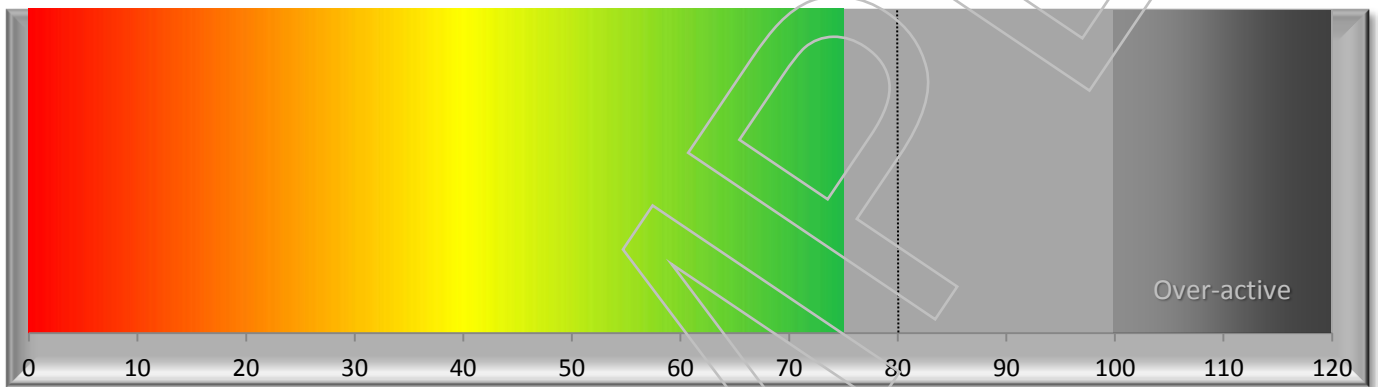



**Customer Name** John Sample  
**Client or Treatment Name** Sample  
**Sample or Replicate Name** Sample 1  
**Crop or Type** Sample  
**Weeks After Emergence** n/a

**Sample Date** 1/01/2001  
**Received Date** 1/01/2001  
**Agent** John Sample & Sons  
**Authorised by** Dr Ash Martin  
**Analysis no.** 0-0

## Microbial Activity Indicator



	Indicator		Key
	Yours	Guide	
Microbial activity	75.0	80.0	

### Comments (Detailed Custom Report available - see Order Form)

Microbial activity was good. However, by creating conditions that are more favourable to microbial activity, such as by increasing soil carbon, this level could be improved.

### Explanations

The Microbe Activity Wise test measures activity of soil microbes directly from your sample. It measures the amount of carbon dioxide (CO<sub>2</sub>) emitted by microbes over time to calculate the respiration rate. Most soil microbes under aerobic conditions (the state your soil should be in) use oxygen to convert carbohydrate into energy and carbon dioxide gas, which they emit as a waste product, like plants, animals and humans. This rate is used to calculate an indicator (0 to 100) based on known values for soils. Interestingly, carbon dioxide concentration in the atmosphere surrounding many crops is often a limiting factor (it is not high enough) to optimal production during peak growth. Stomata, the pores plants use to take in CO<sub>2</sub>, are located on both sides of the leaf (dicotyledons tend to have more on the underside), which allows plants to use the CO<sub>2</sub> emitted by soil microbes as it rises from the soil, so having a good level of microbial activity in your soil not only helps soil process, but can also help to improve crop growth. 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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