



# LAVERSTOKE PARK LABORATORIES

Independent Analysis for Soil Fertility Management



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Client:

Group:

Date:

Field:

Crop:

Contact:

Lab Job No:

## Soil Microbiology Report

	Analysis	Units	Result	Guideline	Low	Good	High
Organism Biomass	Moisture Content	%	21.1	15 - 55			
	Active Bacteria	µg/g	12.98	1 - 5			
	Total Bacteria	µg/g	121	175 - 300			
	Active Fungi	µg/g	10.3	1 - 5			
	Total Fungi	µg/g	60	175 - 300			
	Hyphal Diameter	µm	2.75	> 2.5			

	Analysis	Units	Result	Guideline	Low	Good	High
	Total Nematodes	No/g	0.0	10-20			
	VAM	%	0.0	40 -80			
	ectomycorrhizae	%	0.0	40 -80			

	Analysis	Units	Result	Guideline	Low	Good	High
Organism Ratio	Tot. Fungi/Tot. Bacteria		0.49	0.8 - 1.5			
	Active /Total Fungi		0.17	0.15 - 0.20			
	Active /Total Bacteria		0.11	0.15 - 0.20			
	Act. Fungi/Act. Bacteria		0.79	0.75 - 1.5			

	Analysis	Units	Result	Guideline	Low	Good	High
Protozoa	Flagellates	No/g	0	> 10000			
	Amoebae	No/g	0	> 10000			
	Ciliates	No/g	0	50-100			

## Comments and Recommendations

**Moisture content** is within the optimal range

### Organism Biomass

**Bacterial activity:** Bacterial activity is excellent. The bacterial biomass will continue to increase. **Total bacterial biomass** is below the optimal range. Consider adding compost or spraying compost cycling.

**Fungal activity** is high indicating that fungi have access to a plentiful supply of nutrients. **Fungal biomass** is low. Consider application of fungal rich compost. Avoid compaction where possible.


## Organism Ratios


**Total fungi:total bacteria:** Bacteria dominate. Consider application of fungal foods/fungal rich compost.

**Active fungi:total fungi:** Fungi have access to a source of nutrients.

**Active bacteria:total bacteria** is low. Consider applying bacterial foods if you want to encourage bacterial growth.

**Active fungi:active bacteria:** bacterial and fungal activities are well balanced.

 Blue bars indicate that a value is within the optimal range

 Yellow bars indicate that a value is above the expected range

 Red bars or no bars indicate that values are lower than expected