

**Oregon State University
Soil Health Laboratory**

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Soil Microbial Assessment

Name: _____
 Contact for results: _____
 Date submitted: _____
 Date delivered: _____
 Group number: _____



Sample Identification		%	ppm	ppm	µg biomass/g dry soil	nmol B-gluc/g soil/hour	µg CO ₂ -C/g soil/day		ppm
Customer ID	Lab ID	Moisture	Dissolved C Fumigated	Dissolved C Non Fumigated	Calculated Microbial Biomass	β-glucosidase activity	CO ₂ Burst respiration - 24 hours	CO ₂ Burst respiration - 96 hours	Active Carbon
	1								
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
	10								
	11								
	12								

Method Descriptions:

- Moisture Determined gravimetrically on fresh samples
- Microbial Biomass Chloroform fumigation and K₂SO₄ extraction on air-dried samples, dissolved C quantified with Shimadzu TOC-CHS
- β-glucosidase activity Extracellular enzyme activity of air-dried soils, measured by fluorescence with Gen5 Spec
- CO₂ Burst respiration 2mm dry sieved soil, rewet to 50% WFPS, CO₂ respired over 24 hr and 96 hr incubation quantified with Picarro Autoanalyzer
- Active Carbon Potassium permanganate reduction, quantified colorimetrically with VWR V1200 spectrophotometer