



SOIL FOODWEB International
Soil Rehab Specialists Since 1986

Assay Descriptions

Total Bacteria: (TB) A\$55.00 inc GST

The optimal bacterial biomass in the soil varies according to crop, climate and season; if it is not within this range, bacterial inocula or foods may be required.

Total Fungi: (TF) A\$47.00 inc GST

As with bacteria, the optimal range varies according to crop, climate and season, and may require amendment if outside this range.

Active Bacteria: (AB) A\$47.00 inc GST

Only that percentage of the bacteria which are currently metabolizing organic compounds are directly nourishing the plants; if this portion is too low, bacterial foods may be required to stimulate the dormant population.

Active Fungi: (AF) A\$47.00 inc GST

As with bacteria, only those fungi which are currently growing and metabolizing are directly nourishing the plants, so the dormant part of the population may need feeding if the activity is low.

Protozoa: (Prots) A\$94.00 inc GST

These large single-celled organisms feed upon bacteria and excrete nitrogen in the plant available form of ammonium, so are essential to healthy plant growth. One morphological group, the Ciliates, feed preferentially on anaerobic bacteria, so a high ciliate population may indicate anaerobic conditions which need to be addressed.

Nematodes: (Nem) A\$116.00 inc GST

A very large group of very small worms, these are everywhere on earth. Of the soil-dwelling species, some cause significant crop damage, some prey on other nematodes, and most graze on bacteria and fungi, cycling nitrogen in plant available form. We count the number in a given weight of soil, and identify them to genus and function.



Mycorrhizal Colonization: (VAM)

Over 90% of all plants of Earth form symbiotic relationships with mycorrhizal fungi. These fungi increase the nutrient uptake capacity of the plant and protect it against pathogens. We determine what percentage of your roots are colonized, and also look for signs of disease and other damage.

Qualitative Assessment: (QA) A\$77.00 inc GST

This fast evaluation does not provide actual counts or biomasses of organisms, but based on a visual scan of populations tells you whether your bacteria, fungi, protozoa and nematodes are present in excellent, good, adequate or poor numbers.

E. coli: A\$50.00 inc GST

This common intestinal bacteria has some disease-causing strains, and is an indicator of the presence of other harmful bacteria. We evaluate the number of Colony Forming Units per gram of compost or millilitre of compost tea, to let you know if levels are within or above accepted limits for agricultural fertilizers.

Leaf Organism: A\$60.00 inc GST

This test determines the effective coverage of organisms on the leaf surface, very useful for before and after comparisons of foliar applications of Compost Tea. Adequate coverage of leaf surfaces helps to reduce disease and pests.

Information on RA-PACKS (chemistry testing) available for a sample:

RA-PACK-01	AGRICULTURAL REAMS and ALBRECHT TESTING including MICRO NUTRIENTS - Includes - pH & EC (1:5 water); available Ca, Mg, K, NH ₄ , NO ₃ , PO ₄ and S; organic matter ¹ - exchangeable Na, K, Ca, Mg, H and Al; CEC; ¹ - soluble, Bray I and II (available and extractable) P ; + Colwell P - micronutrients (Zn, Mn, Fe, Cu, B, and Si) - TC/TN; Colour and Texture	\$99
RA-PACK-02	TOTALS - Acid digestable nutrients (P, Ca, Mg, K, Na, S, Cu, Zn, Mn, Fe, B, Si, Co, Mo, Se) + AGRICULTURAL REAMS and ALBRECHT TESTING (RA-PACK-01)	\$165
RA-PACK-06	Basic Agricultural Soil Analysis and Totals Includes Total Nitrogen, Total Carbon; Sodium, Potassium, Calcium, Magnesium, Phosphorus, Sulfate, Silicon, Cobalt, Molybdenum, Zinc, Manganese, Iron, Copper, Boron. Used to assess store of nutrients in the soil.	\$77