

OMNIBIO™ ANALYSIS PROTOCOL

The updated OmniBio™ Index report now includes additional soil measurements, and reports are available directly via the OAP system. An increased sample size is now required.

Sample requirements

- Sample container: Clean plastic bag
- Sample type: Soil/and roots
- Preferable sample quantity: Soil (composite sample), ±600g and Roots, ±100g (two handfuls)
- Soil samples less than 200ml and root samples less than 5g will not be analyzed.
- Transport samples in cooler boxes or other insulated containers, preferably among ice-packs while collecting.

Sampling pattern: guidelines

- Divide large fields into units of 1 hectare.
- Collect soil samples systematically at equally-spaced points according to a grid pattern that covers an entire field, the length of the intervals between sampling points will depend on the sampling precision required. Eg. 2 x 2 grid pattern by which samples are collected two paces apart along parallel rows also two paces apart will reflect the nematode distribution more precisely than a 10 x 10 pattern.
- Samples can also be collected at equally-spaced points along a line running diagonally across a field.
- Sample annual row crops along the rows in small plots and across the rows in larger plots, 10-30cm from the stem, in the root zone.
- Sample patches of poor plant growth along the borders of the patches.
- Sample tree crops in the drip line, on alternate sides of the trunks, and include feeder roots.
- To increase probability of detecting nematode infestations, roots of weeds and volunteer crop plants should be collected when bare soil is sampled.
- Take a minimum of 15 samples per Ha, in a similar pattern to soil nutrient testing for best comparison.
- Geo reference the sample positions to enable return to the same sampling locations to ensure accurate test comparison.

Sampling depth: guidelines

- Soil samples collected to a depth of 15-20cm are adequate for most crops.
- Sample to different depths around deep-rooted perennials eg. 15, 30 and 60-100cm.
- Sample shallow-rooted perennials to a depth of 8-12 cm.
- In regions with hot, dry summers, collect samples 30-45cm deep to allow for vertical migration of nematodes.

Sampling time: guidelines

- In agricultural soils, samples should be collected close to planting time, as the nematodes present at this time can generally be related to yield in annual crops.
- Samples can also be collected between mid-season and harvest as nematode numbers increase towards harvest.
- Samples can be collected in spring for tropical crops.

Care of samples: guidelines

- Handle bags containing samples very carefully and especially do not drop or expose to direct sunlight or other sources of heat.
- Place roots together with soil in the same bag and cover with soil.
- Do not moisten soil samples collected in dry soils.
- NB* Dry soils are expected to have low numbers of nematodes.

Labeling of samples: guidelines

- Attach sample number stickers (barcodes) to the outside of the bagged samples.
- Mark soil bag "OmniBio".
- The sample should be accompanied by an OmniBio Recording Form (available www.omnia.com.au), and a copy of the Recording Form should be faxed or emailed to Omnia as per instructions on Form. OR the sample can be logged directly into the OAP.
- Ideally collect samples early in the week (Monday or Tuesday) to reduce transit times to lab.
- Post samples to APAL, PO Box 155, Welland SA 5007
 - Courier Address: Unit 3, 11 Ridley St, Hindmarsh SA 5007
- Samples are then prepared for transit to the Chemtech Laboratories in South Africa.
- Expected total turnaround time for samples is 3-4 weeks.

Timing of Sampling

- 10 or more samples can be sent in at any time
- If less than 10 samples, then please take the samples in the weeks beginning:

Nov 11, 2019	May 25, 2020
Dec 9, 2019	June 22, 2020
Jan 6, 2020	July 20, 2020
Feb 3, 2020	Aug 17, 2020
Mar 2, 2020	Sep 14, 2020
Mar 30, 2020	Oct 12, 2020
Apr 27, 2020	Nov 9, 2020
	Dec 7, 2020

**ANY QUESTIONS, PLEASE CONTACT YOUR LOCAL AGRONOMIST OR
OMNIA HEAD OFFICE 03 5133 9118**