

# INSTRUCTIONS TO SAMPLE SOIL FOR TRUFFLE DNA QUANTIFICATION



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YOUR NAME:  
ADDRESS:  
PHONE:  
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## ORCHARD INFO

HOST TREE AGE:  
HOST TREE SPECIE:  
TUBER SPECIE:  
AREA PLANTED:

## HOW WE DO THE ANALYSIS WITH REAL TIME PCR



kit Power Soil (MoBio) 0,25 g. Soil.  
sondes Taqman-MGB, for *T. melanosporum*,  
Standard curves with known mycelium quantities for each trial site.

Parladé et al. 2013. *Mycorrhiza* 23:99–106.

## HOW TO TAKE SAMPLES

Note we extract the DNA from soil, not from roots.

Take 4 soil samples (spoon size) from each tree (north-South-East-West) at 10-15cm (4-6 in) deep. If stones, remove them. We just need 50grams of soil per tree.

The distance from the trunk of the tree is as follows:

Trees under 60cm (2 ft.) tall: 20cm (8 in)

Trees 60-150cm (2-5 ft.) tall: 40cm (15-in)

Tree over 150cm (5 ft.) tall: middle of the brule, otherwise 40cm (15-in) or more depending on the size of the tree

We recommend testing at least 10 trees per homogeneous lot (randomly selected from same host trees planted at same time and from same supplier).

We recommend to send one soil sample from outside the orchard or with no truffle influence to use it to build up a control curve.

Once placed into ziplock bags, label them and the samples should be kept refrigerated until shipped to Micologia Forestal & Aplicada. With ice or blue ice using an overnight carrier is better, otherwise use standard air mail.

If you have any questions or comments, please call 0034-938155455 or e-mail [micologiaforestal@micofera.com](mailto:micologiaforestal@micofera.com).

Note mycelium activity is higher during spring summer and autumn, so you better analyze in these growing seasons.

Delivery address is:

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