

RhizeBio Root Sampling Protocol

Pea Root DNA

Sampling Overview

Collect samples from treated and untreated areas for root microbiome (DNA) analysis.

Select plants from multiple locations across each zone. Use clean gloves and disinfected tools between plots. Place each sample type in its own labeled bag.

Sample Collection

Roots – Microbiome (DNA)

See table below for root sampling by growth stage.

Collect entire root system in young plants. In later growth stages collect only feeder roots, discard bulky taproots.

Do not wash. Place roots with adhering soil into a RhizeBio root bag.

Pea Rhizosphere Sampling Guide		
Growth Stage	Root Sample	Plants per Sample
2 – 6 node stage (V2 – V6)	Whole root system	6 - 8
7 – 10 node stage (V7 – V10)	Feeder roots	5 - 6
First flower to full bloom	Feeder roots	4 - 5
Beginning pod fill	Feeder roots	3 - 4

Labeling & Submittal

Use a permanent marker to label each bag with:

- Field Name
- Sample Type (treated/untreated roots)
- Growth Stage
- Collection Date

Complete the RhizeBio Submittal Form with:

- Required: Field name, sample reference, crop type, crop cultivar, longitude & latitude
- If possible: Relevant information describing field trial set-up and goals, field conditions, management techniques (tillage, cover crops, OM inputs, etc.)

Storage & Shipping

Time Before Shipping	Storage Recommendation
<3 days	Store at room temperature or refrigerate
3 - 5 days	Refrigerate at 0-6°C (32-48°F)
>5 days	Use frozen ice packs to ship cool

- Do not freeze roots.
- Do not wash roots.
- Do not use plastic bags.

Ship Samples To:

RhizeBio, Inc.
235 Tuckaseege Road, Suite A
Mount Holly, NC 28120

Contact:

[Support@rhizebio.com](mailto:support@rhizebio.com)
919-351-2038