Woods End is America’s longest running lab for compost and sustainable soils, focused on evaluating the quality of recycled organic matter (ROM) within farming systems. With increased recycling of waste the challenge to handle these biological materials sustainably has grown as well. This includes the new horizon of energy recovery. With all this the need for appropriate and proper interpretation and application of scientific data has similarly increased.

**Most popular general tests:**

#101 **STANDARD Test**: Our most popular compost check for process status and end-product quality, useful also for source ingredients for compost recipes biogas setup, and proper end use. (2-week time)

#102 **Cationic Minerals**: A new special procedure that reveals the principal cations that normally are balanced against soluble anions, and affect compost process quality: Ca, K, Mg, Na, NH₄. (1 wk)

#103 **Anion Nutrients**: Key soluble anions that principally affect salinity, reveal nitrogen stability, and determine plant growth response: includes Cl, NO₃, NO₂, SO₄. (1 wk)

#105 **STABILITY MATURITY INDEX**: The active or volatile carbon and nitrogen content of compost is indicative of its biological age and stability. These tests also help determine the need for continued aeration. Solvita CO₂ + NH₃, measured in fresh samples and reported with Digital Reader. (3-day)

#GB21 **Biogas Potential**- (ÖNORM S2027) A standard 21-day bio methane potential (batch) test showing CO₂ + CH₄ daily + cumulative rate and carbon conversion. Expressed in english and metric units and as btu/ton................................................ . (4 wk)

#202 **PLANT BIOASSAY**: Seedling response of *Lepidium sativum* and *Trifolium pratense* compared to a professional control. Especially useful to show absence of plant toxicity, auxinic herbicide presence (sensitive to 3ppb) and weed seed content. (3 weeks)

#203 **Dewar Self-heating**: The definitive tool to assess ability to re-heat for check compost maturity. 2 wk

#N-Min **Soil N-mineralization**: The new Haney-Brinton method of evaluating soil CO₂ respiration from the drying/rewetting test protocol. Gives total carbon evolved in 24h and potential season N-release (2 wk).

**#PSA Plastic Contamination by Surface Area**: Test based on new EU protocols, reveals surface area of plastic-like film contamination in compost (ft²/liter). A new and increasing problem in green collection programs and in composts with improper process control leading to high residues of bioplastic in final composts.

**#BOD BIODEGRADABILITY/ compostability**: A series of procedures including ASTM-D6400 (thermophilic degradation) D-5338 (disintegration) ISO (anaerobic biodegradation) and DIN (Methane rate/ landfill simulation) documenting aerobic and anaerobic biodegradability of natural synthetics, bio textiles and bio plastics. CO₂ capture, gas production rate and disappearance are measured. Each available separately.

**#DIGI-BIO Digital Image Biodegradability** - Woods End’s most recent technology featuring hi-res digital imaging of stages in biodegradation processes, such as with compostable bags.

**Mat - Compost Matrix.** How do you measure the best-use for a particular compost? Our test matrix scores a sample against 6 potential use-groups and determines mathematically the rank-order score within each group. Great for end-use marketing.

**MICROBIOLOGY & HYGIENE:**

ROM poses bacterial pathogen challenges due to mixing of many waste types and high consumer impact potential. Our tests are skillfully designed to evaluate this.

**Hygiene Enumeration**: included any one or more:
- Salmonella sp., *Clostridium perfringens*, *E. coli*, *E. coli* 0157:H7, Fecal coliforms, Fecal enterococci F streptococci plus Listeria sp.
- Fecal coliform + *E. coli* - most useful for end-product quality
- *Clostridium* - indicative of odor-producers and anaerobic pathogen risk

**Microbe Enumeration** Composts/Compost Tea/Silage. Compost Tea according to USDA-NOP protocol plus soluble nutrients.
LAB SERVICES

#101- STANDARD ANALYSIS......................$125.00
#102/3 - Available Anions/Cations............... $50.00
    or combined 102+103 = $75
#105 - Stability / Maturity Index................25.00
# GB21- 21d Biogas Methane Potential..........850.00
# AT- Anaerobic Methane Toxicity (ISO).........500.00
# 202 - Plant Bioassay................................100.00
#203 - Dewar Self-Heating..........................50.00
#NMin - Soil Respiration N-release..............45.00
# 313 - HYGIENE: Pathogens.Basic/Full......175-300
# BDP- BIODEGRADABILITY........................inquire
# Digi-Bio - Digital Biodegradability .......... ... inquire
# Site Visit-Inspections............................inquire

Prices valid for 30-days from posted date on rate card. For more detailed analysis description, please inquire at 207 293 2457 ext.12

Woods End is USDA-APHIS Certified & MAP Approved

Prices subject to Change without Notice

see OVERVIEW SHEET for description of tests
LAB FLOW OVERVIEW

Notice:
- Woods End has been developing its test methods for over 25 years.
- Woods End has worked in Europe with other analytical labs
- Woods End has received awards and prizes for its careful analytical work
- Woods End manufactures test kits that make your work in the field easier.

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For More Information call — 800.451.0337
Woods End is a MAP Laboratory, APHIS Soil-Import Certified and APHIS Plant Pathogen Certified. MSC and OMRI Approved