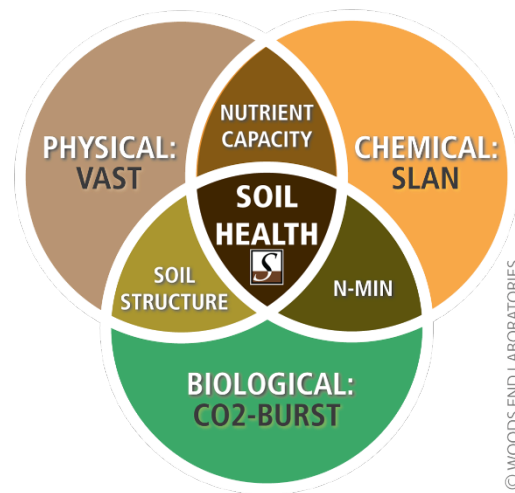


# PERFORM YOUR OWN SOIL HEALTH TESTS

Growers and crop advisors are learning about practices to improve soil health – but lack their own means to measure it. Woods End Labs has been measuring soil health for over 2-decades. Now, we have taken some of our experience in lab tests and created a mini-lab or field kit to enable anyone to make meaningful and accurate measurements of key traits.

The concept in the Suite is the “functional triangle” - physical, chemical and biological soil features. For each one there is an associated test to reveal and quantify it. With proper care, any of these tests can be easily performed outside the laboratory environment.



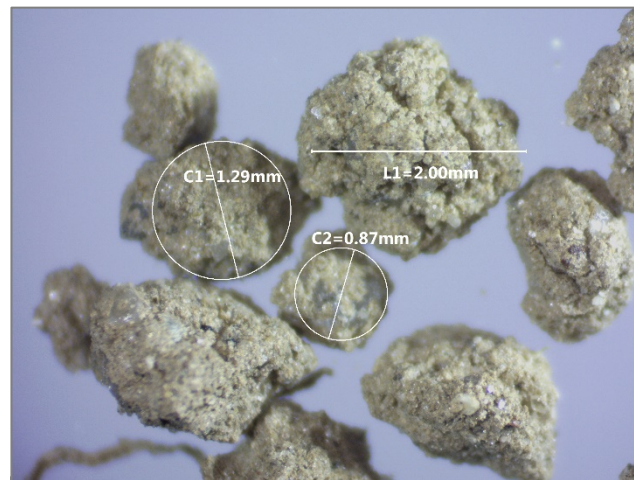
By joining the *Solvita Soil Health Suite* program you gain the capability to run your own soil health tests to benefit your own farm, your customers and clients, and get a discount on supplies. We will help get you started with a basic field laboratory and provide training and on-going support.

Whether you are a grower, a consulting agronomist, or a regular soil lab, you can join this new program with the Solvita® Soil Health Suite and be able to easily and accurately measure key traits and significantly enhance your soil fertility appreciation.

## THE SOIL HEALTH TEST ROSTER INCLUDES:

- 1 Microbial CO<sub>2</sub> respiration (Burst)
- 2 Microbial CO<sub>2</sub> respiration (Basal)
- 3 Amino-Nitrogen Storage (SLAN)
- 4 Aggregate Stability (VAST)
- 5 Volume Scoop (bulk density)

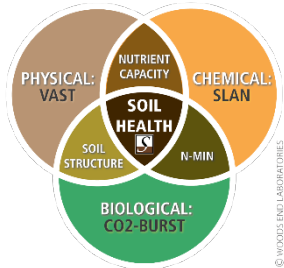
You enter into a Suite agreement with *Woods End Labs* and obtain the basic equipment and supplies to run biological respiration, storage amino-N and aggregate stability. Additional useful equipment and supplies are identified for add-on features to enhance the robustness of the validation. Software includes a standardized calculation of a soil health index.



Water Stable Aggregates captured during the VAST test. Each aggregate is literally a macro-structure made up of thousands of individual soil grains.

\* Optional tests include those easily performed by a regular lab. Woods End is developing new protocols for soil volatile ammonia and total soluble N.

# GETTING STARTED: THE SOLVITA® SUITE TOOLS TO ENABLE SOIL HEALTH MONITORING



© WOODS END LABORATORIES

1 2 3 4

**SOLVITA SOIL HEALTH SUITE** (item #2875) includes all 3 Solvita® Tests in quantities of 100 packs plus 1-time VAST technology fee.



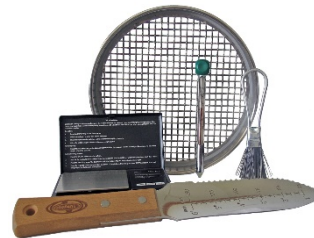
1 5

**30 cc Scoop** used for STANDARDIZING sample SIZE for CO<sub>2</sub>-Burst test.  
**3 4 cc Scoop** (SLAN)



1 2 3

**Digital Color Reader** reads CO<sub>2</sub>-respiration (Burst & Basal) and SLAN results.



1 2 3 4

**6 mm field Sieve** for fresh soil sampling w wire cleaning brush, **Soil Knife**, **Digital Scale**, **Soil Thermometer**



1 2

**CO<sub>2</sub>-Respiration Jars** (12 jars)  
**SLAN Jars** (12 jars).



1 3 4

**QAQC** Woods End Annual Proficiency Program with 2 reference samples.



4

**Volumetric Aggregate Stability**

The annual VAST-license fee is included.

1 2 3 4

**Woods End Soil Roller**

used for gentle NON-DESTRUCTIVE sample preparation after drying soil.



**Additional pieces of equipment** you would need to run the Solvita® Suite (supplier list available from [solvita@woodsend.com](mailto:solvita@woodsend.com)):

- Examples are a basic drying oven, a simple incubator to standardize biology temperature.
- Pipettes with a range of 5 - 15cc for adding DI water (CO<sub>2</sub>-Burst) and NaOH solution (SLAN) to sample (see instruction manuals).
- Sodium Hydroxide (NaOH) - NaOH extracts soil amines and is a laboratory reagent that must be handled carefully, see [MSDS Sheet](#).
- 2mm sieve for sample prep after soil roiling