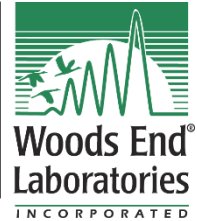


Woods End Laboratories Inc.
290 Belgrade Road – PO Box 297
Mt Vernon ME 04352 207 293 2457
solvita@woodsend.com

QAQC Instructions



SOLVITA SOIL REFERENCE PROGRAM

Welcome to Woods End Laboratories first official soil reference test. This shipment contains two reference soil samples to be tested for Solvita CO₂ Respiration and optionally Solvita SLAN.

Also included is a color-balanced reference card to check the quality of your DCR optical system.

Please run the soil samples for CO₂-Burst using the new 50% WFPS method.

If you do not perform the WFPS wetting method and are still using the original Capillary-bottom wetting method, or some variation of it, please mark it on the data report form in the indicated space.

INFORMATION ABOUT THE SOIL SAMPLES:

SOIL #1 – Low CO₂ Respiration, Ex Low SLAN

Source: Stanly County, North Carolina
Soil Series: Tarrus-channery silty clay
Management: 30 yr continuous corn, no cover-crops, no manure

SOIL #2 – Medium-High CO₂ Respiration, Medium SLAN

Source: Sagadahoc County, Maine
Soil Series: Hadley Silt Loam
Management: 30 yr organic farming, compost and cover-crops

INSTRUCTIONS FOR THE TEST:

Split the samples into A – B pairs. Run the tests per current Solvita instructions. Use your standard lab temperature (recommended: 20-25°C, note the temperature on the sheet). Use the attached data sheet to enter moisture used in the soils and all test results. Scan or mail to the address above.

INSTRUCTIONS ON STANDARD COLOR CARD:

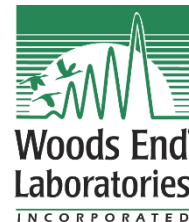
Place the grey color card into the probe slot on the DCR and read it on the CO₂-LO channel. This card has been color balanced. The results help us evaluate the color quality of your DCR unit.

PLEASE SCAN AND SEND RESULTS BACK WITHIN 30-DAYS OF RECEIPT. We will supply a report with the next 30 days.

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DATA ENTRY SHEET

(RETURN TO Woods End Labs)



SOLVITA QAQC SOIL REFERENCE PROGRAM Release 001-06

LAB Name: _____

Contact Person: _____ email: _____

DCR MODEL (when turned on): _____ Date Soils Received: _____

A) WETTING METHOD (please identify):

- 50% WFPS method used for wetting (**PREFERRED**)
- Capillary-Bottom wetting method used with [_____] cc water per sample

B) RESPIRATION CO2-BURST RESULTS (40g soil + water; read after 24hrs on CO2-Low Channel):

SOIL SAMPLE	Rep	DCR CO2-Lo COLOR	DCR ppm CO2-C	WFPS VOL Soil*	WFPS water	Temp °C	Date of Test
SOIL #101 Low Biology	1						
	2						
SOIL #201 Med Biology	1						
	2						

* If WFPS method used, write down soil volume and cc water used.

C) SLAN RESULTS (4g soil + 10cc 2N NaOH; read on Ammonia Channel at 24hrs):

SOIL SAMPLE	Rep	DCR NH3 COLOR	DCR mg N	Date of Test	Test °C
SOIL #101 Low Biology	1				
	2				
SOIL #201 Med Biology	1				
	2				

QUALITY CONTROL COLOR-BALANCE CARD RESULTS (record result of grey color):

Channel	Color Number	ppm CO2-C
CO2-Low		

RETURN THIS SHEET ONLY WITH YOUR TEST RESULTS

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SUPPLEMENTAL INFO



SOLVITA DOCUMENTATION

Image 1: On this DCR screen, 700.6 is the Solvita Version Number.



EXAMPLES OF READING DAT for the SOLVITA QC PROGRAM:

LEFT: Lo CO₂ Screen
Color Number reads 1.90
ppm is 10.7

RIGHT: SLAN NH₃ Screen
Color Number is 2.80
mg NH₃-N is 1.03

