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For Immediate Release: June 6th, 2019

Woods End Introduces Solvita® IRTH™

Easy, Automated Monitoring of Microbial Respiration

Mt. Vernon, Maine – The soil science community now has a new instrument available in their carbon toolbox: a sophisticated yet simple way to measure biological carbon dioxide (CO₂) emissions. [Solvita® IRTH™](#) (pronounced “earth”) reports the quantity of CO₂ naturally released from moist biological samples such as soil, plant litter, compost and more. The instrument is specifically designed for soil ecologists, conservationists and carbon researchers investigating carbon transformation.

“Solvita IRTH combines state-of-the-art laboratory technology with a small, highly functional test unit that anyone can use,” says Will Brinton, Ph.D., inventor of the Solvita

suite of soil tests and the founder of [Woods End Laboratories](#).



The invention builds on more than 30 years of R&D in microbial respiration including the successful and widely used [Solvita® probes](#). Whereas Solvita® probes are designed to test large quantities of samples accurately in 24 hours, IRT^H™ enables a single sample to be closely examined over minutes to days. And while Solvita® probes are application-specific, IRT^H™ expands the practice to enable studies in soil respiration (such as for soil health), decay of plant material (such as leaves, grass clippings or crop-residues), spoilage of foodstuffs (such as grains and vegetables) or compost stability.

IRTH's nucleus is a *smart lid* – it starts assessing respiration as soon as the sample is enclosed and the unit is powered. The CO₂-sensitive lid, designed to fit premium-quality Schott glassware, contains a wide-range infrared (IR) cell capable of applications in highly variable environments. “We believe IRT^H fulfills the best expectations of a highly practical and very accurate tool, useful to teachers, scientists and others interested in observing CO₂ cycling,” says Brinton.



For more information or to order IRTH™, visit solvita.com/IRTH/.

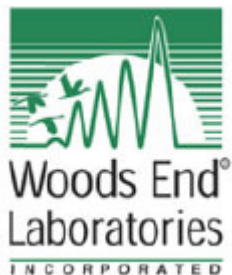
Woods End was founded as a soil testing lab in 1974 and has grown and evolved into a firm providing a broad range of scientific support services to enable more successful and responsible interaction of agriculture with nature. Woods End was the first USA lab to offer soil health testing. The company invented and developed the Solvita® brand of products for measuring biological respiration, aggregate stability and amino-nitrogen soil pools. Growers, farmers, conservationists, students and others worldwide use Woods End products and services to monitor soil health, foodstuff spoilage and compost stability. In

addition, Woods End is a GLP-certified lab for non-clinical studies on biodegradation, providing leading-edge research for developing sustainable packaging and chemicals.

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***For more information or to set up an interview,
email [Scott Caron](mailto:scott@woodsendlab.com) or call 207-293-2457.***

***Download graphics and additional information at:
<https://solvita.com/media-downloads>.***



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