



Variable.Pathlength.Extension

Silica Sample Vessels

Product Specifications



Introduction

C Technologies, Inc.'s SoloVPE System is the world's first Slope Spectrometer. Fundamentally, the SoloVPE is a UV-Vis measurement platform that has been made more powerful through the addition of patented variable pathlength technology. The primary system components include: the Agilent Cary 60 spectrophotometer that serves as the measurement engine providing the core capabilities of light source and detection, a fiber optic coupler, a command and control PC running the Windows® operating system and the Agilent Cary WinUV software and the SoloVPE, the variable pathlength extension which is the enabling technology for making Slope Spectroscopy based measurements.

Slope Spectroscopy® methods, are based upon the Beer-Lambert law and enable allow accurate direct measurements of highly concentrated samples without dilution and frequently without the need for baseline correction.

The system ships with three styles of Sample Vessel and the Sample Vessel Holders required to use them. The three sample vessels provided are: the Large Silica Vessel, the Small Silica Vessel and the Micro Silica Vessel. The vessels give SoloVPE users the ability to select the proper vessel for the measurement being made. The maximum usable pathlength and required sample volume are functions of the vessel geometry which is why proper vessel selection is important part of method development.

Physical Properties and Dimensions

Vessel Type (Part No)	Internal Diameter (mm)	External Diameter (mm)	Vessel Height (mm)	Transmissive Range (nm)	Maximum Pathlength (mm)	Approx. Volume Requirement @ Specific Pathlengths
Small Silica (OC0005-1)	5	8	15	190 – 1100	5.000	~ 10 μ l @ 0.050 mm 20 μ l @ 1.000 mm 100 μ l @ 5.000 mm
Large Silica (OC0005-2)	13	16	23	190 – 1100	15.000	~ 16 μ l @ 0.100 mm 135 μ l @ 1.000 mm 2 ml @ 15.000 mm
Micro Silica (OC0005-3)	3	8	15	190 – 1100	5.000	< 10 μ l @ 0.050 mm 13 μ l @ 1.0000 mm 60 μ l @ 5.000 mm

Further Details

Getting more information

For further information please contact C Technologies, Inc., your authorized representative or visit our website: solovpe.com

solovpe.com

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