



Variable.Pathlength.Extension

OC0009-1-P50

Small Disposable UV Plastic Vessels
(Package of 50)

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 OC0009-1 Small Disposable UV Plastic Vessel is the latest enhancement to the SoloVPE System. This new plastic vessel can be used across a broad wavelength range and provides excellent resistance to a wide variety of chemical species, thus allowing users to enjoy the benefits of the SoloVPE System while saving time and money by avoiding costly cleaning steps.

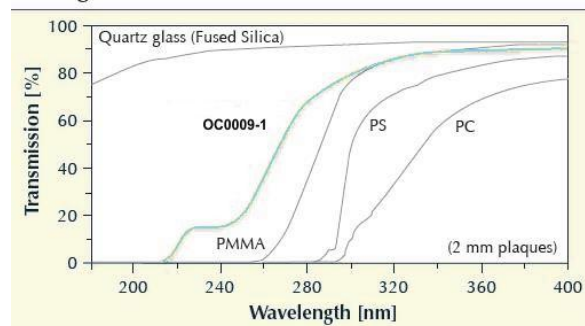
Features, advantages and benefits

Features	Advantage / Benefit
<i>Disposable</i>	Make measurements without having to clean the sample vessel afterward, simply dispose of the plastic vessel
<i>UV transmissive</i>	Make measurements into the UV wavelength range without having to use the Silica sample vessels
<i>Reclaim sample</i>	If desired, the sample can be reclaimed prior to disposing of the sample vessel
<i>Standard vessel holder</i>	Use the same vessel holder that comes with the SoloVPE system for use with the Small silica and Micro silica sample vessels
<i>Volume requirements</i>	Volume requirements similar to the small silica vessel
<i>Pathlength range</i>	Pathlength range is the same as the small silica vessel
<i>Applications</i>	Protein, antibody concentrations, DNA, RNA

Physical properties and dimensions

Internal diameter	5.0 mm
External diameter	8.0 mm
Vessel height	15.0 mm
Required volume at Max Pathlength (5.0 mm)	150 µl
Pathlength range	0.005 mm – 5.0 mm
Expiration information	All packages are labelled with the Product Expiration Date. Product Expiration is set at two (2) years relative to the date of production.
Wavelength range	220 nm – 800 nm

UV light transmission



Chemical and temperature compatibility

Temperature resistance

70° C Max

Proper Storage Conditions

For extended storage, temperatures should be maintained at 15 – 27° C (60 – 80 ° F). Vessels are vacuum packed for protection and to avoid the impact of humidity on the product. It is best to store the product in its original packaging and out of direct sunlight or intense light sources to avoid degradation of transmissive properties

Chemical compatibility overview

The Table below provides a representative list of chemical compounds and the expected material performance. This is not intended to be in any way a recommendation of the material for any particular application. It remains the responsibility of the customer to ensure that the material is suitable for the desired use.

Chemical Species	Compatibility
Acetic Acid 96%	Excellent
Hydrochloric Acid 32%	Excellent
Acetone	Excellent
Isopropanol	Excellent
Acetonitrile	Excellent
n-Pentane	Poor
Benzene	Poor
Oleic Acid	Poor
Butanone	Excellent
Perchloric Acid 10%	Excellent
Carbon Tetrachloride	Poor
Petroleum Ether	Marginal
Chloroform	Poor
Phenol	Excellent
Diethyl Ether	Marginal
Sodium Hydroxide	Excellent
Dimethylsulfoxide	Excellent
Sulfuric Acid	Excellent
Ethanol	Excellent
Trichloro Acetic Acid	Excellent
Formaldehyde 40%	Excellent
Trichloroethylene	Poor
Heptane	Poor
Toluene	Poor
Hexane	Poor

Customer support options

Support and training

C Technologies, Inc. is committed to your success. Our service and support options include:

- IQOQPQ included with purchase.
- On-site training included with purchase.
- Full 12 month warranty support.
- Seven (7) year hardware support period from date of last unit manufacture.
- Single and multi-year Service Contract options which include an annual PM Service.
- On-Demand PM Services.
- Remote and on-site training and support.
- Software support services.

Further details

Getting more information

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

solovpe.com
ctechnologiesinc.com

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The Originators of **Slope**
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