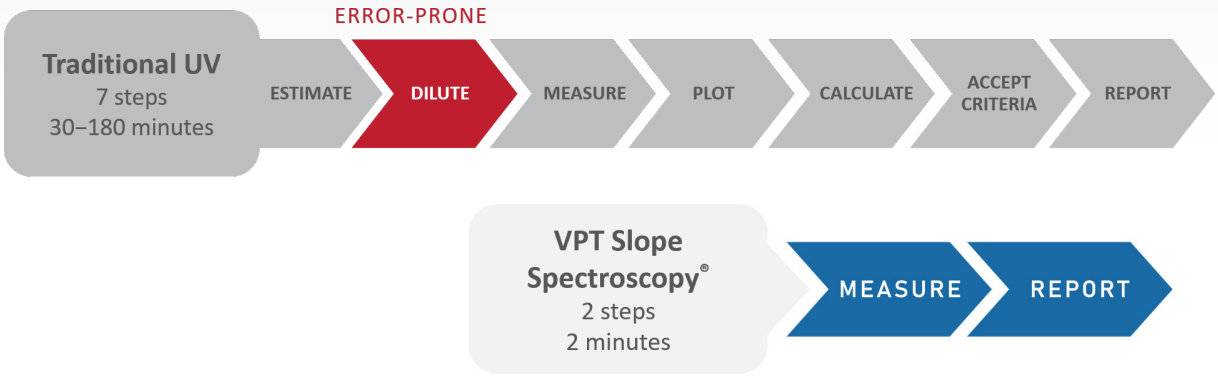
CTech™ SoloVPE® System

Concentration results with confidence

More timely, uncompromised data. The at-line CTech™ SoloVPE® System provides a three-dimensional, information-rich result in seconds, with minimal operator interaction and zero sample dilution. The SoloVPE System helps you automate, standardize, and streamline the testing process—simply measure the sample, then report your results in less than two minutes.

CTech™ SoloVPE® instrument for at-line analytics



Complexity Becomes Simplicity

- Slope Spectroscopy delivers results based on multiple data points instead of a single absorbance value
- **Eliminate sample dilution:** measure highly concentrated samples without the need for concentration estimation or alteration
- **Gain rapid results:** with results in less than one minute, get data faster and have the option to test more frequently
- **Linear range-finder technology:** the SoloVPE System automatically identifies and adjusts for the linear region of section data sets without the need for buffer or baseline correction
- **Standardize platform technology:** confidently work system-to-system, operator-to-operator, site-to-site, with ±2% repeatability

Applications for Slope Spectroscopy

Applications	
Protein A280, Monoclonal Antibodies	Antibody Drug Conjugates (Drug-to-Antibody Ratio)
Polysorbate Analysis	Multicomponent Analysis
Planova Integrity Testing	Titer Analysis
Nucleic Acids (DNA/RNA)	Plasmid Purity

REPLIGEN
INSPIRING ADVANCES IN BIOPROCESSING

CTech™ SoloVPE® System

Gain real-time, actionable data with rapid concentration measurements

The CTech™ SoloVPE® System uses variable pathlength technology to generate actionable concentration measurements for various at-line applications with proven accuracy and repeatability across systems, operators, and sites. Providing results in less than two minutes, and without the need for dilution, we have set the new standard for UV-Vis spectroscopy, by providing results based on multiple, auto-calibrated data points instead of a single absorbance value.

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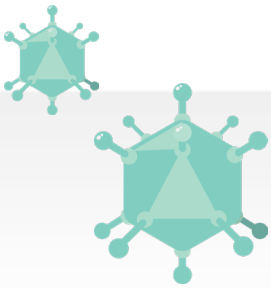
Current Applications

Current applications include, but are not limited to:



- Protein A280, Monoclonal Antibodies
- Plasmid Purity
- Polysorbate Analysis
- Planova Integrity Testing
- Quantitation of Nucleic Acids (DNA/RNA)
- Antibody Drug Conjugates (Drug-to-Antibody Ratio)
- Multicomponent Analysis

Specifications

SoloVPE System Specifications	
Dimensions (W x D x H)	10 x 10 x 15 in (255 x 255 x 381 mm)
Weight	20 lb (9 kg)
Spectroscopic Engine*	Agilent Cary 60 Spectrophotometer Fiber Optic
Integration	Dual-Use Fiber Optic Coupler
SoloVPE System Power Requirements	SoloVPE unit contains no power supply (powered via Cary 60)
Cary 60 Power Requirements	100 VAC–240 VAC, frequency 47 Hz–63 Hz
Maximum Pathlength	15.000 mm
Minimum Pathlength Step	0.005 mm
Variable Pathlength Speed	>1.3 mm/sec
Slope Repeatability**	±2%
Sample Vessel Compatibility	Fused silica (large, small, micro), disposable plastic (small)
Fibrette Compatibility	OF0002 (silica + polymide)
Sample Volume Required	Dependent on sample vessel used and method pathlength range
Proximity to Cary 60	On top of or within 0.5 m
Measurement Pathlength Axis Orientation***	Vertical
Recommended Computer Hardware per the Min Requirements of the Agilent Cary WinUV Software Package	Min Processor: Intel i5 Min Hard Drive: 250 GB (SSD preferred)

*Photometric performance characteristics are based upon the Cary 60 spectrophotometer specifications and are applicable to the Cary 60 independent of the SoloVPE.
**Repeatability performance requires properly validated method and controlled homogeneous samples.
***Samples that are not homogeneous, suspensions, improperly mixed, or not in solution could produce unexpected results. This should be assessed during method development.