



High Throughput Raman Screening For Pharmaceutical Industry

ELEMENTAL ANALYSIS
FLUORESCENCE
GRATINGS & OEM SPECTROMETERS
OPTICAL COMPONENTS
CUSTOM SOLUTIONS
PARTICLE CHARACTERIZATION
RAMAN / AFM-RAMAN / TERS
SPECTROSCOPIC ELLIPSOMETRY
SPR IMAGING



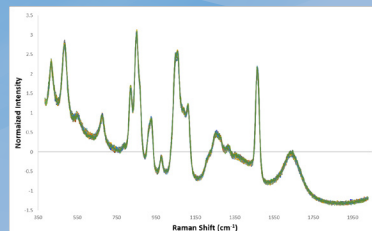
PoliSpectra[®] RPR
Rapid Raman Plate Reader
96 wells in less than 1 minute

PoliSpectra RPR is a high-speed, non-destructive, and effective screening tool ready to be integrated into High Throughput Screening (HTS) processes in the pharmaceutical industry.

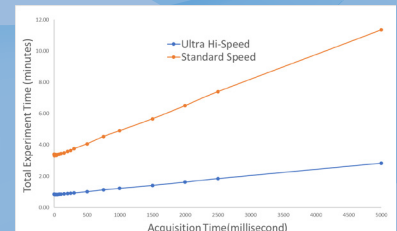
- Ultra hi-speed configuration RPR scans 96 wells in less than 1 minute @ 500 ms exp. time per well
- Compatible with liquid handling systems for automatic sampling
- Excellent well-to-well signal reproducibility
- Ultra-low well-to-well crosstalk

Applications:

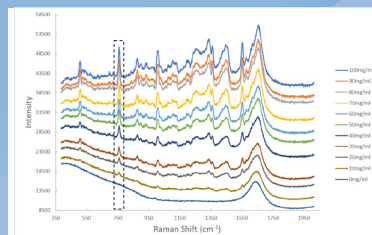
- Vaccines
- Bio-fermentation
- Drug Content QC



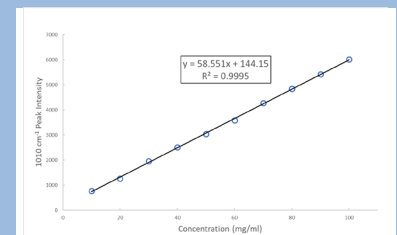
Well-to-well Reproducibility (20% Gly in 96 wells)



96 Wells Scanning Time (Ultra hi-speed vs. standard speed)



Quantitative Analysis of Lysozyme (commonly used enzyme in Bio-pharma)



Multiple Laser Wavelength

532 nm & 785 nm options increase the types of samples that can be characterized

Automatic Self-calibration

Ensures reliable data & meets industry-standard performance criteria

RPR Control Software with OPC-UA or REST API Interface

Designed for interoperability with standard pharma systems

Well-plate Compatibility

96 or 384 WP format



Auto-recognition of shallow vs. deep well



PoliSpectra® Rapid Raman Plate Reader - RPR Specifications

Laser

Laser wavelength	Choose from 532 nm and 785 nm
Laser power for 532 nm	up to 150 mW
Laser power for 785 nm	up to 500 mW
Laser power adjustment	Software controlled

Scientific Camera

Deep-cooled camera	< -25°C TE-cooling (from +20°C ambient)
Type of scientific sensor	CCD or sCMOS

Modular Raman Spectrometer: Contact us to optimize/customize configurations for your applications.

Resolution	1.7 cm ⁻¹ /pixel	532 Raman spectrometer
	1.6 cm ⁻¹ /pixel	785 Raman spectrometer
Spectral coverage	From 400 cm ⁻¹ to 3,150 cm ⁻¹	532 Raman spectrometer
	From 200 cm ⁻¹ to 3,400 cm ⁻¹	785 Raman spectrometer

RPR System Specifications

Reading speed*	96 wells in < 1 minute (@532 nm)
Plate format	96 wells (custom wells on request)
Self-calibration	Automatic (on programmable timing)
Door	Motorized for robot compatibility
Server control	OPC-UA
Footprint	28.2" X 19.2" (71.6 cm x 48.8 cm)

(*) @ 500 msec exposure time per well

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