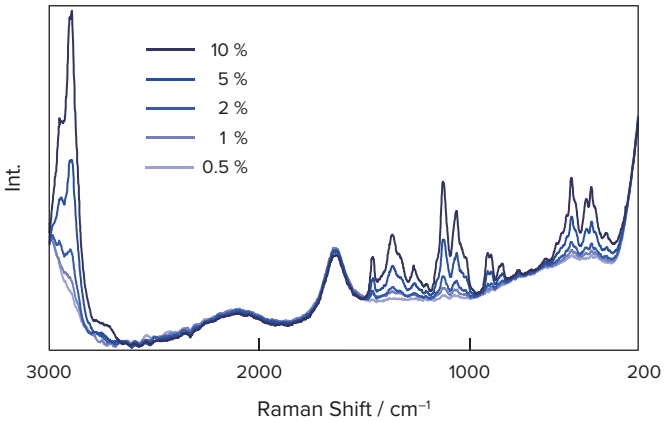
Easy qualitative and quantitative measurement of components in solution

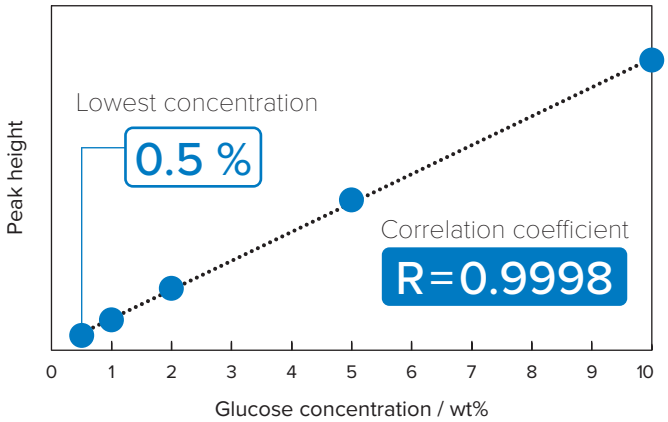
Palmtop Raman Spectrophotometer PR-1w

Quantitative measurement of components in aqueous solution with high accuracy

Raman spectroscopy is unaffected by water and can be used to analyze components in aqueous solution.
In addition, calibration curves with high correlation coefficients can be obtained, allowing for accurate quantitative measurements.



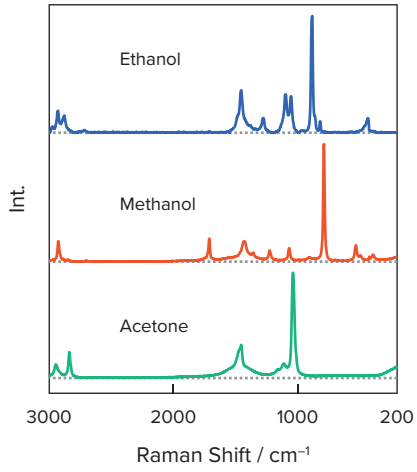
Raman spectra of aqueous glucose solutions at different concentrations



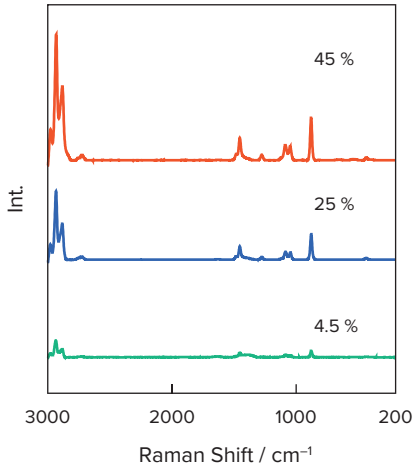
Calibration curve for glucose aqueous solution

Identification of organic solvents

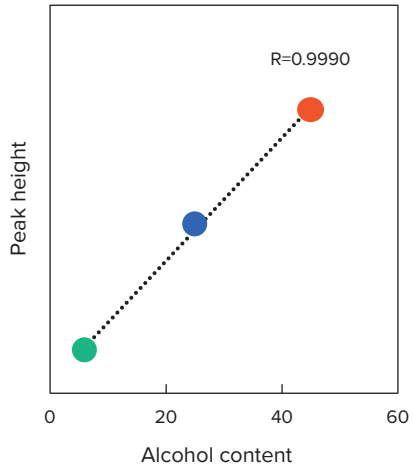
It is possible to identify the organic solvents by using Raman spectra and perform quantitative measurement of mixed solutions.



Raman spectra of each organic solvent



Raman spectra of alcoholic beverages



880 cm⁻¹ peak height for alcoholic beverages

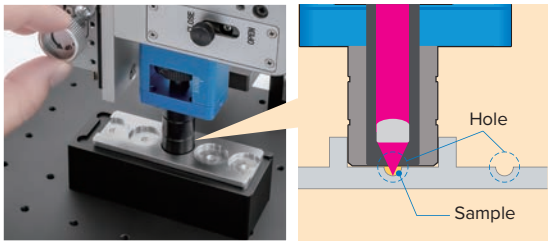
Various accessories to achieve the desired measurements

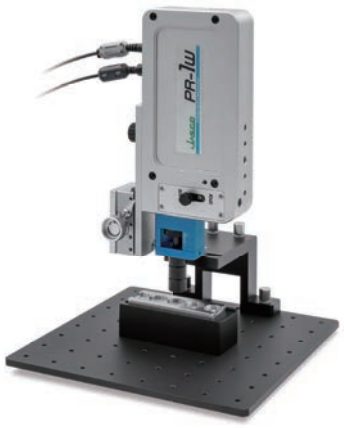
For trace liquid samples

Z Stage Unit PR-1-Z, Liquid/Powder Holder 5-holes, PR-1-SP-5

5-hole liquid/powder holder can be used for the sample measurements as small as 10 µL. By placing the guide tip in the indentation, the laser spot can be directed onto the sample without the need for fine adjustment.

Liquid/powder holder 5 holes





For samples in disposable containers

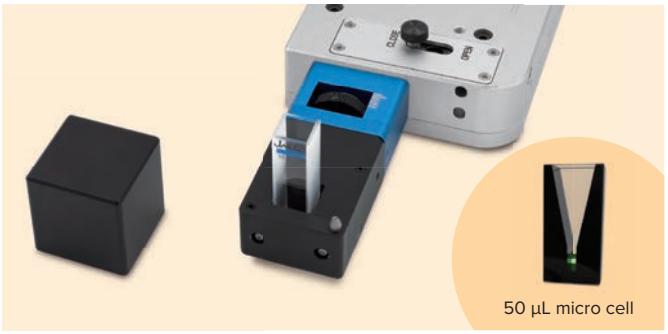
Vial Holder PR-1-V

This holder can hold a 2 mL disposable vial, which is useful as it can be disposed directly after measurement. No focus adjustment is required when replacing vials, allowing for stress-free continuous measurement of multiple samples.

For quantitative measurements with high reproducibility

Rectangular cell holder PR-1-Z

The use of quartz cells, which are also used in UV/Vis spectrophotometers, allows measurement with less background interference compared to glass cells.



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