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NIR Analysis of Nutraceuticals Using LabSpec® Pro

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Overview:

As more and more consumers continue to adopt healthier lifestyles, the importance of vitamins and related supplements cannot be understated. While nutraceutical products are not yet regulated to any great degree, plans have been proposed to bring this burgeoning industry under the watchful eye of the Food and Drug Administration. Thus, there is a virtual mandate for nutraceutical companies to standardise ingredients, ensure product purity and quality, and indeed enhance efficiency of manufacturing processes. Process analytical technologies (PAT) will gain in significance as nutraceutical manufacturing emulates the benefits already being seen with pharmaceuticals. Accordingly, the experiment outlined in this application note purposes to use NIR spectroscopy technology as a cost-effective means of assessing the constituents of various nutraceuticals.

Instrumentation:

The LabSpec® Pro and QualitySpec® Pro near infrared spectrophotometers provide unique and highly beneficial features for nutraceutical, pharmaceutical and a wide range of other applications. For example:-

- Extended wavelength range includes visible region – 350nm up to 2500nm.
- Rapid analysis – complete spectra measured in just 0.1 second.
- Exceptional signal to noise performance due to Peltier cooled InGaAs detectors.
- Truly portable and ruggedised systems with no performance compromises.
- Fibre optic interfaces with standard SMA connectors enable huge diversity of sampling techniques to be employed.

The complete application note including experimental details and results is available in PDF format. For this and additional information on cutting edge NIR spectroscopy solutions, plus more unique and innovative analytical instrumentation contact:

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