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New Self-Cleaning Diffuse Reflectance Probe Provides Non-Contact Analysis for Chemical and Pharmaceutical Development and Process Monitoring

TUSTIN, Calif., March 1, 2010 – Axiom Analytical, Inc. has announced its fiber-optic coupled FDR-825 Diffuse Reflectance Probe. Operating in the near-infrared (near-IR) and visible spectral regions, the new probe has been designed to yield optimum performance for the analysis of powders, slurries, and other diffusely reflecting materials. A unique feature of the new probe is the provision of a set of orifices around the circumference of the probe window positioned so as to allow efficient flushing of the window by a solvent or dry vapor stream.

The proprietary optical design ¹ of the FDR-825 provides a unique combination of high sensitivity, low stray light, and large depth-of-field and is suitable for use at substantial distances from the material being analyzed. Its variable offset feature allows the optimum sample distances to be set anywhere between 30 and 100 mm. The probe's integral bifurcated 80 fiber-optic bundle provides an ideal combination of sensitivity and economy.

The Company anticipates that the FDR-825 will find application in fields such as chemical and pharmaceutical development as well in process analytical technology (PAT) modeling and scale-up. Methods developed using the FDR-825 can be applied on-line in full-scale process analysis in batch reaction vessels using the Company's large scale diffuse reflectance probes such as its model FDR-1800.

Ref. 1: U.S. Patent 5,818,996.

About Axiom Analytical, Inc

Axiom Analytical, Inc. was founded in 1988 by Dr. Mike Doyle and Norm Jennings, pioneers in the field of process FTIR spectroscopy. The Company's mission is to develop and market the robust sampling equipment, software, and integrated systems required to fully realize the potential of molecular spectroscopy for solving economically significant problems both in laboratory analysis and manufacturing processes. The Company's products are employed in diverse industries ranging from basic chemicals to pharmaceuticals, semiconductors, and polymer processing.

More information about Axiom Analytical Inc. can be found at <http://www.goaxiom.com/>.

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