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New Near-Infrared Spectroscopic Transmission Probe Combines Robust Performance with the Reduced Diameter Required for many Pharmaceutical Process Analytical Technology (PAT) Applications

TUSTIN, Calif., March 9, 2011 – Axiom Analytical, Inc. has announced its fiber-optic coupled FPT-830 Near-IR Transmission Probe. The new probe shares many of the characteristics of the Company's well-established FPT-850 on-line process analytical probes, including the extreme robustness provided by the Company's patented welded metal window sealing technique ⁽¹⁾. However, the new fiber-optic probe also features reduced diameter (18 mm) and thus is tailored to providing optimum performance when used with the relatively small reaction vessels often employed during pharmaceutical process development and scale-up for on-line process control.

In common with the FPT-850, the FPT-830 employs a single pass through the sample gap. This provides two important advantages compared to double pass "transflectance" probes. First, it eliminates the possibility of stray light offset caused by backscatter from either the sample or the probe windows. Second, it provides twice the window separation for a given optical pathlength, greatly enhancing sample flow between the windows.

The FPT-850 is widely used for on-line NIR and UV-Visible process analysis in the chemical and petroleum industries. Its ability to be mounted directly in a process line or vessel has brought true in-situ analysis to these industries, eliminating the need for costly and trouble-prone sample conditioning systems. The FPT-830 extends this capability to smaller process lines and reaction vessels. In addition, its reduced weight makes it ideal for many pharmaceutical development and other laboratory applications.

References: (1) U.S. Patent 6,876,801 B1

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/>.