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Axiom Analytical, Inc. Announces the Production Release of its FDR-825 Self-Cleaning Diffuse Reflectance Probe for Non-Contact Analysis in Chemical and Pharmaceutical Development and Process Monitoring

TUSTIN, Calif., November 5, 2012 – Axiom Analytical, Inc. has announced that its self-cleaning, fiber-optic coupled [FDR-825 Diffuse Reflectance Probe](#) is now in full-scale production. 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 50 mm and infinity. The probe's integral bifurcated 80 fiber-optic bundle provides an ideal combination of sensitivity and economy.

The FDR-825 is being applied 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 vibrational 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. In short, the Company's products are found wherever process analytical technology (PAT) is being applied. Its hardware products include ATR probes, transmission probes, diffuse reflectance probes, Raman probes, flow cells for gas and liquid analysis, and fiber-optic multiplexers. These cover the full range of molecular analysis including mid-IR, near-IR, UV-visible, and Raman spectroscopy.

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