

SPECTRAL ANNOUNCES PRESENTATION OF DATA ON IMPROVING SEPSIS PATIENT MANAGEMENT WITH EAA™ AND TORAYMYXIN™ COMBINATION

TORONTO, Canada – June 2, 2008 – Spectral Diagnostics Inc. (TSX: SDI) today announced that data demonstrating the clinical utility of its EAA™ Endotoxin Activity Assay in combination with Toray Medical's therapeutic column, Toraymyxin, was presented at the Practical Aspects of Extracorporeal Blood Purification in Intensive Care Medicine, 6th Annual Conference held in Moscow, Russia from May 28th-30th.

Dr. Alexander Romaschin, Head of Clinical Biochemistry at St. Michael's Hospital in Toronto and Associate Professor in the Department of Lab Medicine and Department of Surgery at University of Toronto, presented on the effectiveness of sepsis patient management with the use of the combination of Spectral's EAA™ assay, the only FDA cleared diagnostic for the measurement of endotoxin, and the Toraymyxin™ column, which removes endotoxin from the bloodstream. Dr. Romaschin's presentation was entitled "Diagnostic and Prognostic Implications of Endotoxemia based on Measurements Using the Endotoxin Activity Assay". In addition, Dr. Hisataka Shoji presented data from the Japanese experience using the EAA/Toraymyxin combination.

"There was great enthusiasm for this approach to managing sepsis patients from this prestigious audience of medical doctors from across Russia," said Rob Verhagen, Vice President, Business Development of Spectral. Spectral recently announced that it has expanded its collaboration agreement with Toray to include Russia.

"Dr. Romaschin's data reaffirms the clinical utility of EAA™ in combination with extracorporeal blood purification devices, such as Toraymyxin™. This combination is gaining increasing recognition and acceptance globally as an effective way to diagnose, treat and monitor patients with endotoxemia," added Dr. Paul Walker, President and CEO of Spectral.

About Toraymyxin

Toraymyxin, a blood purification device, absorbs the bacterial toxin (endotoxin) that causes sepsis and septic shock using a special fiber. It consists of a plastic cylindrical container filled with a special fiber composite immobilized with the antibiotic polymyxin B, which has high affinity for endotoxin. In 1993, Toray received approval for manufacturing and marketing of the product from the "Health and Welfare Ministry of Japan," and Toray Medical has been marketing it since 1994.

About Toray

Toray Medical Co., Ltd. is a subsidiary company of Toray Industries, Inc., a leading diversified chemicals corporate group that has been technology-focused since its foundation in 1926. The company's operations are underpinned by technological expertise in organic synthetic chemistry, polymer chemistry, and biochemistry. These

innovative technologies have yielded “advanced materials” that Toray is now exploiting to provide customers with comprehensive solutions through Fibres and Textiles, Plastics and Chemicals, IT-related Products, Carbon Fibre Composite Materials, Environment and Engineering, Life Science and Other Business divisions. In FY2006, Toray had consolidated sales of 1,546 billion yen (approx \$13 billion US), and over 33,000 employees worldwide. For further information, please check www.toray.co.jp.

About Spectral Diagnostics

Spectral is a leader in the battle against sepsis. Spectral’s lead product is its Endotoxin Activity Assay (EAA™), the only FDA cleared assay for the measurement of Endotoxin. With the growing awareness for the role of Endotoxemia in sepsis and the increasing number of therapies being developed for this indication, Spectral is well-positioned to drive the adoption of the EAA™, which can be used to identify patients, enable therapeutics and monitor treatment. Spectral is listed on TSX under the symbol SDI.

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Forward-looking statement

Information in this news release that is not current or historical factual information may constitute forward-looking information within the meaning of securities laws. Implicit in this information, particularly in respect of the future outlook of Spectral and anticipated events or results, are assumptions based on beliefs of Spectral's senior management as well as information currently available to it. While these assumptions were considered reasonable by Spectral at the time of preparation, they may prove to be incorrect. Readers are cautioned that actual results are subject to a number of risks and uncertainties, including the availability of funds and resources to pursue R&D projects, the successful and timely completion of clinical studies, the ability of Spectral to take advantage of business opportunities in the biomedical industry, the granting of necessary approvals by regulatory authorities as well as general economic, market and business conditions, and could differ materially from what is currently expected.

The TSX has not reviewed and does not accept responsibility for the adequacy or accuracy of this statement.