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Unity Scientific Introduces New Near Infrared Spectrometer to Analyze Human Milk for Critical Care Newborns

Columbia, MD, December 10, 2009 – Unity Scientific, LLC announces the launch of a new application for its SpectraStar near infrared spectrometer for analyzing human milk for nutritional value with a critical care nursery. Providing sufficient nutrition for critical care infants is critical so as to maximize weight gain and assure proper physiological development. It has been shown that as much as half of human milk samples analyzed in NICUs have had an energy level of less than 20 Calories/oz. The SpectraStar Neonatal Analyzer allows neonatology professionals to determine the nutritional value of expressed mother's milk so that these at-risk babies can be assured of receiving adequate nutrition. Protein, Lactose and Fat can be determined in the Neonatology Ward so that, if needed, the milk can be properly fortified. The instrument uses less than one CC of milk and provides protein, lactose and fat values in less than 30 seconds. The instrument also calculates caloric value in either Calories/oz or Calories/dL (or other units as required). The SpectraStar Neonatal Analyzer also provides the number of grams of protein (or lactose or fat) supplement required to bring the Calorie level up to chosen values.

Doug Evans, President comments, "Analyzing milk with near infrared analysis has been done for 25 plus years and is a standard method in the dairy industry to guarantee proper nutrition for both the humans consuming the milk and the cows who are producing the milk. Unity Scientific has been working with leading researchers in the medical field of Neonatology to develop an analysis technique using NIR that can give rapid bedside results so that the proper fortification can be given to the mother's milk in order to guarantee that the baby receives the calories required to properly develop. Up until now it has been somewhat of a guess if the milk required additional nutrients. This application will help to give the NICU staff the information they need immediately so that actions can be taken to enhance the mother's milk so that the baby has a better chance of survival and development. "

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Unity Scientific, LLC is a global leader in the design and production of Near Infrared instruments for at line, on line and laboratory analysis along with manufacturing Automated Wet Chemistry Analyzers. Over 2,500 near infrared systems and 6,500 wet chemistry units have been installed worldwide. Unity NIR spectrometers are ideal for quick and accurate QA/QC testing in the Food, Agriculture and chemical markets. The wet chemistry instruments are used for a wide variety of testing from clinical applications in a hospital to environmental testing of water samples. Our technical staff averages over 20 years experience each and are available to assist in any technical capacity. Unity Scientific, LLC is a privately held company. Additional information on the SpectraStar 2400 RTW or the entire SpectraStar series of analyzers can be obtained by viewing our website at www.unityscientific.com or email us at info@unityscientific.com

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