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**Cerilliant Introduces New Certified
Snap-N-Spike® Solutions of Corticosteroids**

SAINT LOUIS, MO – April 16, 2014 – Sigma-Aldrich Corporation (NASDAQ: SIAL) today announced that the Cerilliant® brand within its Applied Diagnostics and Testing Business Unit introduced four new Certified Spiking Solutions® of the corticosteroids pregnenolone, 17 α -hydroxypregnenolone, cortisone, and 11-deoxycorticosterone at concentrations of 100 μ g/mL in methanol.

These new solution-based Certified Reference Materials are suitable for preparation of calibrators, controls, and linearity standards in clinical and diagnostic labs as well as hospitals and research settings which require the highest accuracy of results in applications ranging from diagnostic testing and clinical chemistry to endocrinology and neonatal screening. The stable quantitative solution format of Cerilliant's Spiking Solutions® offers the laboratory benefits such as increased efficiency of labor and convenience of use.

While the analysis of hormones and other small molecules for neonatal screening by LC-MS/MS is well established, other clinical applications are rapidly emerging. Pain management clinics, for example, are increasingly using LC-MS/MS methods to quantify hormones such as pregnenolone, 17 α -hydroxypregnenolone, and cortisone in patient serum. These hormones have been shown to serve as biomarkers of pain and as indicators of abnormal hormone production.^{1,2}

Cerilliant provides innovative solution-based reference standards for use in a variety of analytical applications ranging from clinical and diagnostic testing, toxicology, and therapeutic drug monitoring to emerging applications in endocrinology, clinical chemistry and pain management. Cerilliant's comprehensive listing includes parent drug, metabolite, and internal standard Certified Spiking Solutions® for clinical applications involving steroids and hormones, catecholamines, vitamins including 25-hydroxyvitamin D, cardiac drugs, antidepressants, antifungals, pain management drugs and immunosuppressants.

About Cerilliant

Cerilliant Corporation, located in Round Rock, Texas, is a global leader in providing certified reference standards for critical applications. The company has been providing certified reference materials for over 30 years. Cerilliant offers more than 3,000 catalog products and a full range of custom products and services that address the stringent and complex requirements of the pharmaceutical, clinical diagnostic, clinical/forensic toxicology, natural products industries. Cerilliant sustains a modern, robust quality system, which incorporates cGMP, GLP, and ISO requirements. We are accredited to ISO Guide 34 and ISO/IEC 17025, certified to ISO 13485 and ISO 9001:2008, and are compliant with ISO 17511 and ISO 15194. Cerilliant Corporation is a subsidiary of Sigma-Aldrich®. For more information about Cerilliant, please visit www.cerilliant.com.

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About Sigma-Aldrich: Sigma-Aldrich, a leading Life Science and High Technology company focused on enhancing human health and safety, manufactures and distributes more than 200,000 chemicals, biochemicals and other essential products to more than 1.4 million customers globally in research and applied labs as well as in industrial and commercial markets. With three distinct business units – Research, Applied and SAFC Commercial – Sigma-Aldrich is committed to enabling science to improve the quality of life. The Company operates in 37 countries, has more than 9,000 employees worldwide and had sales of \$2.7 billion in 2013. For more information about Sigma-Aldrich, please visit its website at www.sigma-aldrich.com.

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¹<http://www.empr.com/hormone-levels-can-validate-presence-of-pain-and-affect-treatment/article/310528/>

²http://www.journalofprolotherapy.com/pdfs/issue_08/issue_08_06_hormones_for_pain.pdf