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News Release

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EMD Millipore Recognized for Technologically Advanced Products by R&D Magazine

- **Two R&D Magazine 100 Awards underscore a commitment to innovation and new product development**

Billerica, Mass., September 15, 2014 – EMD Millipore, the Life Science division of Merck KGaA, Darmstadt, Germany, announced it has received two R&D Magazine 100 Awards for innovative products released to market in 2013. The 52nd Annual R&D Awards recognize the 100 most technologically significant products introduced into the marketplace over the past year.

“A key component of our strategy is to offer the highest quality and most innovative products. Recognition for two *R&D Magazine* awards exemplifies our technical expertise and leadership in providing differentiated solutions to a broad range of customers across the life science industry,” said Udit Batra, President and Chief Executive Officer of EMD Millipore. “EMD Millipore will continue to support efforts to drive future advancements in our portfolio of offerings, and in 2013, the Life Science Tools Division of Merck KGaA, Darmstadt, Germany, invested €160 million in R&D activities. We are most appreciative of those employees who have dedicated their careers to furthering scientific advancement in these fields.”

The EMD Millipore products that were recognized are:

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- **The SmartFlare™ detection reagent** is a novel probe capable of detecting specific mRNAs and miRNAs in live, intact cells. This technology allows for carrier-free cellular endocytosis of the reagent, followed by detection and relative quantitative analysis of RNA levels. Because the reagent leaves the cell after the detection event, the same sample can be used for any downstream analysis, meaning you can assess multiple biomarkers or downstream functionalities in the same cells.
- **Clarisolve® depth filters** are specifically tuned to the particle size distribution of various pretreatment methodologies enabling the fastest and most efficient way to clarify high-density streams and easily transfer processes from upstream to downstream without the use of centrifugation. Clarisolve depth filters were designed for high cell density/titer mammalian cell culture feed streams for mAb production. There has also been early success in microbial and vaccine applications.

With nearly 800 employees focused on R&D, EMD Millipore is working with customers to develop innovative solutions for the research, development and production of biopharmaceuticals and biotech processes worldwide.

Widely regarded as the “Oscars of Invention”, the R&D 100 Awards identify and celebrate the top technology products of the year. Past winners have included sophisticated testing equipment, innovative new materials, chemistry breakthroughs, biomedical products, consumer items, and high-energy physics. The R&D 100 Awards spans industry, academia, and government-sponsored research.

The winners of the R&D 100 Awards are selected by an independent judging panel and the editors of *R&D Magazine*.

About EMD Millipore

EMD Millipore is the Life Science division of Merck KGaA of Darmstadt, Germany and offers a broad range of innovative, performance products, services and business relationships that enable our customers' success in research, development and production of biotech and pharmaceutical drug therapies. Through dedicated collaboration on new scientific and engineering insights, and as one of the top three R&D

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investors in the Life Science Tools industry, EMD Millipore serves as a strategic partner to customers and helps advance the promise of life science. Headquartered in Billerica, Massachusetts, the division has around 10,000 employees, operations in 66 countries and 2013 revenues of €2.6 billion.

About Merck KGaA, Darmstadt, Germany and EMD Chemicals

Merck KGaA of Darmstadt, Germany, is a leading company for innovative and top-quality high-tech products in the pharmaceutical and chemical sectors. Its subsidiaries in Canada and the United States operate under the umbrella brand EMD.

Around 38,000 employees work in 66 countries to improve the quality of life for patients, to further the success of customers and to help meet global challenges. The company generated total revenues of € 11.1 billion in 2013 with its four divisions:

Biopharmaceuticals, Consumer Health, Performance Materials and Life Science Tools. Merck KGaA of Darmstadt, Germany is the world's oldest pharmaceutical and chemical company – since 1668, the name has stood for innovation, business success and responsible entrepreneurship. Holding an approximately 70 percent interest, the founding family remains the majority owner of the company to this day. EMD Chemicals is a North American subsidiary of Merck KGaA of Darmstadt, Germany.

Worldwide there are two separate companies that bear the name “Merck”, the original Merck KGaA from Darmstadt, Germany, the oldest pharmaceutical and chemical company in the world, and the pharmaceutical company Merck & Co. in the United States. The rights to the name and trademark MERCK in North America (USA and Canada) lie with Merck & Co., the former U.S. subsidiary, whereas Merck KGaA, Darmstadt, Germany, operates in North America under the umbrella brand EMD and EMD Chemicals. In the rest of the world, Merck KGaA, Darmstadt, Germany, owns the rights to the Merck name and trademark. This press release was distributed by Merck KGaA, Darmstadt, Germany.

About R&D Magazine

Since its founding in 1959 as *Industrial Research*, *R&D Magazine* has served research scientists, engineers and technical staff at laboratories around the world, providing timely, informative news and useful technical articles that broaden readers' knowledge of the research and development industry and improve the quality of their work. *R&D Magazine* is a publication of Advantage Business Media (www.advantagebusinessmedia.com).