

Sterigenics International and Noxilizer announce partnership to provide NO₂ sterilization for pharmaceutical, biotech and medical device products

Agreement supports customers with global manufacturing networks

October 3, 2017 (Baltimore, MD and Broadview Heights, OH) Noxilizer, Inc. and Sterigenics International LLC announce the signing of a global agreement that will make Sterigenics the exclusive worldwide provider of nitrogen dioxide (NO₂) contract sterilization services, as well as feasibility and research studies, to the pharmaceutical, biotech and medical device manufacturing industries.

NO₂-based sterilization was first commercialized by Noxilizer in 2012. Customers prefer nitrogen dioxide sterilization for its key advantages: ultra-low temperature (10°-30°C), minimal pressure requirements, no cytotoxic residuals, and fast cycle times (2-4 hours, including aeration). NO₂ sterilization opens new avenues for medical device innovation and has been shown to be particularly effective in the sterilization of prefilled syringes, drug-device combination products, and custom implants.

"We are very excited about our partnership with Sterigenics, as together we can rapidly expand NO₂ sterilization capability for our customers," states Lawrence Bruder, President & CEO of Noxilizer. "Noxilizer's customers will now have large-scale facilities to meet their needs for contract services, redundancy and increasing volumes."

"Sterigenics is committed to providing our customers with efficient, state-of-the-art sterilization services using the processes best suited to their specific products," says Philip Macnabb, President of Sterigenics. "We regularly monitor new technologies and are excited to be able to add NO₂ processing to our suite of offerings."

Noxilizer expects to have the first NO₂ sterilization systems in place and operational in select Sterigenics' facilities in the United States and Europe by the end of the year with additional installations to follow. As part of the agreement, Sterigenics will also offer nitrogen dioxide sterilization consulting services to its customers.

Customers will also be able to benefit from the integrated testing services available through Sterigenics International's Nelson Laboratories business. "This unique combination of cutting edge sterilization technologies, expert consulting support, and full-service testing services will provide customers with unrivaled support in getting products to market quickly and reliably," says Jeff Nelson, President of Nelson Labs.

"Sterigenics has set a high standard for matching the needs of its customers with the best available sterilization technologies," Lawrence Bruder concluded. "Noxilizer shares this commitment to excellence and we look forward to working with the Sterigenics International team as they continue to reshape the market."

About Sterigenics International LLC:

Sterigenics International LLC, along with its affiliates, is a global leader in outsourced contract sterilization services, laboratory services, gamma technologies and medical isotopes, and the only vertically integrated sterilization company in the world. Operating out of 51 locations in 13 countries across the Americas, Europe and Asia, Sterigenics provides contract sterilization and ionization services for the medical device, pharmaceutical, food safety, and high-performance materials industries. Its affiliate Nordion positions Sterigenics as the world's largest provider of Cobalt-60 used in the gamma sterilization process as well as medical isotopes used in the diagnosis and treatment of various diseases and cancers. Through Nelson Labs, Sterigenics offers microbiological and analytical testing and consultancy to assist customers in developing and maintaining sterilization solutions in medical devices, tissue/implantable products, and pharmaceuticals and biologics fields. Sterigenics International LLC and its affiliates serve more than 2,500 customers around the world and is owned by private equity firms Warburg Pincus and GTCR. Learn more about **Sterigenics** at sterigenics.com, about **Nordion** at nordion.com and about **Nelson Labs** at nelsonlabs.com.

About Noxilizer, Inc.:

Noxilizer, Inc. provides an ultra-low temperature nitrogen dioxide process that offers many benefits over traditional sterilization and biodecontamination methods. Noxilizer sells sterilization and biodecontamination equipment to pharmaceutical, biotech and medical device manufacturers. Noxilizer's expert microbiology and material compatibility team is ready to partner to solve sterilization challenges through every phase of the process. Noxilizer, Inc. has offices in the United States and Japan. For more information, please visit: www.noxilizer.com.

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