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MULTISORB
Technologies

Corporate Offices:
325 Harlem Road
Buffalo, New York 14224 USA
Tel: +1 716.824.8900
Fax: +1 716.824.4091
www.multisorb.com

Getting a Handle on Oxygen Management Multisorb Technologies Introduces SimulOxSM

New York, N.Y. (April 20, 2010) - While oxygen is crucial for life, it is a disruptive influence in the pharmaceutical packaging industry because of its ability to shorten the shelf life of certain types of drugs and compromise their effectiveness.

Multisorb Technologies (Multisorb), the world's leading active packaging technology company, today announced at Interphex 2010 the introduction of SimulOxSM, a pseudo-empirical modeling service that helps to determine the components of sorbents used to manage the oxygen environment in pharmaceutical packaging. Multisorb is located at booth #644 at Interphex, April 20-22, at the Jacob K. Javits Convention Center in New York City.

"Many pharmaceutical manufacturers make a fundamental and costly mistake when introducing new drugs," says Adrian Possumato, Global Director of Healthcare Packaging at Multisorb. "They spend millions developing fantastic medicines and then run into problems when they find they are unable to manage the oxygen environment of the packaged drug product and ultimately limiting its shelf life and stability. The launch of their new product is pushed out as they try to find a quick fix to their challenge. This costs them time, market position, brand presence and ultimately profitability."

SimulOxSM is a component of Multisorb's Calculation through OperationsSM (CtO) value proposition. As a simulation service, it uses sophisticated mathematical formulations to analyze the drug product to be packaged and predict its chemical and/or physical stability outcomes when exposed to oxygen in the headspace volume of a container. It then identifies the elements needed to formulate a tailor-made sorbent with total accuracy, which will protect the integrity of the drug product concerned. It also determines if the solution should be a drop-in, fit-in, or a built-in intelligent sorbent.

"To obtain optimal results during the consultative SimulOxSM process, our scientists collaborate with the pharmaceutical company's formulation chemists, packaging and equipment engineers. Their objective is to determine the correct sorbent solution to enhance the product's stability, integrity and shelf life. Not only is this a good technical decision, it is also a great business strategy as any potential hiccups would be taken care of long before the product went into full production," adds Possumato.

Based on the outcome of the SimulOxSM simulations, Multisorb specialists then formulate the correct sorbent solution, which is packaged as a product called StabilOx[®] and is delivered in oxygen absorbing packets, labels and canisters. These are ideal for pharmaceutical formulations that are susceptible to oxidative degradation and significantly improved stability

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in comparison to desiccant use to control moisture-mediated oxidation. They can also be used in medical device packaging.

By following this best practice process, pharmaceutical manufacturers can achieve true Quality by Design (QbD) standards and potentially get the new product to market six to 12 months sooner.

In addition, Multisorb has a pseudo-empirical modeling program and simulation service called SimulSorbSM, which is also used as part of the CtO process to determine the best approach in managing moisture levels in packaging. It is often used in conjunction with SimulOxSM.

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About Multisorb Technologies

Multisorb Technologies has been an innovator in active packaging technology for over 45 years. Founded in 1961 by John S. Cullen to protect products against the damaging effects of moisture, today Multisorb is the world leader in the development and production of active packaging components.

Multisorb's corporate offices are located at 325 Harlem Road, Buffalo, New York 14224 USA. For more information contact: Phone: +1 716-824-8900; Fax: +1 716-824-4128; E-mail: info@multisorb.com; Website: www.multisorb.com.

For Further Information

Jenna C. McDonald
Multisorb Technologies
+1 (716) 824 8900
jmcdonald@multisorb.com
www.multisorb.com

Evan Bloom
Eric Mower and Associates
+1 (315) 413 4349
ebloom@mower.com
www.mower.com