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Genevac's new web page illustrates advantages of evaporative sample preparation for mass spectrometry

June 28, 2017

Genevac has established a new web page that brings together customer technical articles that illustrate how centrifugal evaporation has become a sample preparation technique of choice for laboratories that seek to analyze complex samples using hyphenated mass spectrometry [MS] techniques.



Many laboratories still rely upon the use of a rotary evaporator to perform the evaporation part of their sample preparation protocol prior to LC-MS or GC-MS analysis. While rotary evaporator methods often give good recoveries, they can only handle a single sample, require continuous monitoring to control the process and to ensure that no foaming or bumping occurs.

For labs involved with GC-MS or LC-MS – Genevac SampleGenie™ technology in conjunction with a Rocket Synergy, HT or EZ-2 series evaporator is enabling large sample volumes to be dried directly into vials eliminating several time-consuming sample handling steps and the attendant risk of errors. SampleGenie is proven to reduce evaporation times by up to 66%, is compatible with a wide range of HPLC, GC and storage vial sizes and is a proven methodology for environmental analysis, metabolism and toxicology studies, food and beverage research, drugs of abuse testing as well as post

purification protocols in life science research.

Environmental analysis of persistent organic pollutants (POPs), glyphosphates and agal toxins are today a critical requirement in monitoring the quality of municipal water supplies. A paper is available for download that describes how a direct evaporative method developed to replace a solid phase extraction sample preparation technique that has traditionally been used prior to LC-MS-MS analysis of algal toxins in lake water. The authors demonstrate how the direct evaporation sample preparation technique offers distinct advantages over solid phase extraction by eliminating the sample clean-up step, improving reproducibility, decreasing analysis time, minimizing waste generation and being more cost effective.

MALDI-TOF Mass Spectrometry is a widely accepted technique for the elucidation and quantitation of biomolecules in life science research. However concentrating oligonucleotides, proteins, antibodies and other large biomolecules prior to analysis is not straightforward. A paper is available for download that describes how Genevac centrifugal evaporators have been able to protect these sensitive samples from thermal degradation and by preventing cross contamination between different samples in a microplate.

Source:

<http://www.spscientific.com/>

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Genevac's high performance centrifugal solvent evaporator systems are designed for use in chemistry, biology and analytical science applications and are in use in laboratories worldwide.

Their centrifugal evaporator product range starts with the third generation EZ-2 Series of personal centrifugal evaporators. Designed specifically for solvent removal in life science research, be that concentration of samples or complete drying - now with fully optimisable methods and nitric acid resistance.

Also included in this range are the HT Series II Systems, and the HT-24 Evaporator for production environments. The miVac sample concentrator range is designed for Molecular Biology, providing very high performance coupled with ease of use and occupying the minimum of laboratory space.



As part of our continuous programme of collaborative research and development, they introduced the Rocket 4D Evaporator to our range. Rocket 4D is for fast, safe, automatic evaporation of large volumes of solvent ranging from a few litres to many tens of litres, freeing the user to do other things. This grew from the Rocket which is a very fast evaporation system for concentration or evaporation from up to 6 flasks of 450ml.

Genevac is a subsidiary of SP Scientific, a leading manufacturer of specialty equipment for pharmaceutical, biotechnology, industrial, academic, and OEM applications.

Products are sold under marketing leading brands that include Genevac solvent evaporators and miVac sample concentrators, FTS precision thermal control systems and LyoStar freeze dryers with SMART for freeze drying cycle development and ControLyo for controlled ice nucleation, Virtis laboratory and pilot-plant driers, Hull production scale freeze dryers, and Hotpack glassware washers.