

Parallel and Fast Concentration of Samples in PCB and Dioxin Analysis

The vacuum concentrator D-EVA allows unattended, parallel and fast concentration of several samples with automatic stop at a defined volume between 10 and 150 μ L.

During the clean-up of PCB and dioxin samples it is necessary to concentrate samples to a very low volume for subsequent analysis. In order to preserve the analytes, evaporation to dryness urgently has to be avoided. With the D-EVA vacuum concentrator, LCTech GmbH, specialist for automated sample clean-up, has developed the ideal solution for fast and parallel concentration of 1 to 47 samples.

The system evaporates the samples using vacuum and light to a defined volume. A special sensor, designed by LCTech, stops the system automatically at a volume between 10 and 150 μ L. Even with rinsing, the subsequent transfer into the insert of a GC-vial is possible. Independent of the sample number or position in the rotor, the results achieved for each sample are the same.

Design and technology reliable prevent unwanted further evaporation after stopping the process as well as cross contamination.

During concentration, the sample is centrifuged at moderate speed. This results in a centrifugal force that reliably prevents boiling retardation. Cleaning steps are not necessary during the process.

In addition to the easy-to-use software, D-EVA is supplied with a highly efficient cold trap in which the solvent is recondensed and collected. Therefore no vapours are produced in the laboratory and the solvents are easy for the user to dispose.

Furthermore, D-EVA requires only little space in the laboratory as only one system is necessary for parallel processing of several samples. For different vials various rotors are available.



D-EVA Vacuum Concentrator

About LCTech GmbH

LCTech GmbH is based in Obertaufkirchen, Germany. Since 1998, it has been developing and distributing unique robotic systems and automated products for the preparation and analysis of food, animal feed, toxicological, and environmental samples. The product range includes both semi and fully automated sample preparation systems as well as consumables utilised in the analysis of contaminants and residues.

LCTech is represented worldwide through a well-developed distributor network and acts additionally as the exclusive distributor for PICKERING Laboratories in Europe, Africa Middle East and the CIS-countries.

Worldwide, many customers – including governmental and contract laboratories focusing on food and feed analysis, and also those working in the pharmaceutical industry or research – equally appreciate both, the modern and efficient products of LCTech as well as its responsive and competent customer support. More information is available online via www.LCTech.de.

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