

Automated Sample Clean-up in PCB and Dioxin Analysis for Samples Hardening at Room Temperature

The automated system DEXTech Heat especially cleans up samples that need to remain melted in PCB and dioxin analysis by keeping the sample liquid with three heating zones - from sample vial to the first column.

In PCB and dioxin analysis, there is an increasing amount of samples that harden at room temperature and thus generate challenges for automated clean-up. LCTech GmbH, the specialist for automated sample preparation, has launched a new system on the market that automatically processes especially these samples without the need for additional tools or manual handling.

DEXTech Heat, which is based on the unique technology and functionality of the established DEXTech Pure system, processes even difficult samples such as stearin or PFADs. Without clogging, automated, reliable and with best results.

Integrated heating zones heat up all components of the system that are relevant for processing the sample and to keep the sample liquid throughout the clean-up process – from sample vial to loading onto the first column. This prevents clogging of the first clean-up column. In addition, the homogeneous consistency of the sample ensures a better distribution of the quantification standard and thus better recoveries.

The temperature of the three heating zones can be set individually via a central control unit.

Like the approved DEXTech Pure, DEXTech Heat separates PCBs and dioxins in one fraction each via a 3-column set-up based on aluminium oxide. The subsequent measurement can be performed for dioxins and PCBs in one GC-MS run each. Default methods in compliance with current regulations are already stored in the system. In case the user only analyses PCBs, an additional shortened method is available that saves time, solvents and costs.

Parallel to the fractionation, offline heating of the next sample is possible which additionally saves time. Besides that, the system can also be used without heating for ordinary samples that do not harden at room temperature at any time. Once the system has started, no further manual action is required.

Permanent automated rinsing steps of the system and exchangeable columns ensure that cross-contamination is reliably avoided at any time.

A multitude of safety features ensures the security of the user during the whole runtime. Like the entire DEXTech product family of LCTech, DEXTech Heat is conform to the EPA method and European regulations.



DEXTech Heat

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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