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Automated Sample Preparation for Dioxins and PCB

DEXTech Plus

# Sample Preparation with DEXTech Plus

## DIOXINS AND PCB



## Automated PCB and Dioxin Analysis

DEXTech Plus sets new standards in regards of flexibility, reducing costs per sample and effortless handling.

The system is based on a 3-column-concept and necessitates a remarkable processing time of only 35 minutes. Hence, only one system is required (= one flow path) to process 3.500 samples per year. Solvent consumption per run is very low.

### Greatest Flexibility of All Automated Systems

By using different types of columns and free parametrization of methods, you have the opportunity to configure the DEXTech Plus system according to your requirements for each sample.

### Standard Method or Flexible Parameterization

Evaluated standard methods, e.g. the default SMART method for processing in 35 minutes, are stored in

DEXTech Plus. Additionally, the user can freely parameterise methods and save them in the system. The saved methods can be opened and modified via the password-protected touch screen at any time and then be saved again with a different name.

## Easiest Handling with DEXTech Plus



*"just click it"*

Click columns into the column tower - "just click it". The tower will be automatically locked by a patented mechanism. Afterwards place the sample vial into the DEXTech Plus system. The sample will be automatically loaded via the syringe pump; however, at no time the sample will get in contact with the syringe pump itself. Therefore, cross contamination can be reliably excluded. For a quantitative transfer the sample reservoir will be rinsed afterwards.

### [More details about LCTech`s columns for PCB and dioxin analysis](#)

Throughout the entire process, the touch screen displays the processing status. An acoustic signal as well as a LED display indicates the end of process. The clean-up performed by DEXTech Plus is compliant with the EPA method and European regulations.



*For high-throughput laboratories particularly attractive:*

Parallel use of 4 systems achieves a throughput of 14.000 samples per year.

## Safety Features

Your safety is important to us.

The DEXTech Plus system has many safety features:

### Sensors for Monitoring

The system is equipped with a pressure sensor for pressure monitoring, an overflow sensor for waste level control and a leakage sensor below a removable drip tray. Should one of the sensors send a signal, the system will stop processing. After elimination of the error, processing of the current sample will be continued.

### No Mechanical Movement When the Door is Open

DEXTech Plus operates in low voltage range and any mechanical movement of parts is just performed with closed

front door. These results in additional user safety.

## Free Choice of Placing in Your Laboratory

Due to closed fractionation container no fume hood is required and the system can be placed flexible in your laboratory.

## Report for Quality Control



As standard, DEXTech Plus is equipped with an USB interface to transfer the in the software generated processing protocols to a PC.

Up to 28 individual sample preparations can be saved. All sample related data are consequently stored for documentation, so the risk of data loss is excluded.

Please contact us

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## Prices and Example Offers

Information on prices and example offers can be found in the [User-Login](#) area.

We will be happy to send you your access data on request to [info@lctech.de](mailto:info@lctech.de).

## News

[Dichloromethane free method for your dioxin and PCB sample clean-up \( pdf | 156 KB \)](#)

## Brochures

[DEXTech product family brochure \( pdf | 1 MB \)](#)

[DEXTech Plus brochure \( pdf | 2 MB \)](#)

## Video

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[DEXTech Plus in action](#)

## Application note

[Automated clean-up of various brominated compounds: A breast milk example \( pdf | 683 KB \)](#)

## Press release

[3,500 samples per year throughput with the new automated sample preparation system for dioxin analysis DEXTech Plus](#)

## Publication

[Evaluation of PCDD/Fs, dioxin-like PCBs and PBDEs in sperm whales from the Mediterranean Sea \( pdf | 1 MB \)](#)

## Results

[Reliable and reproducible results](#)

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