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Automated Sample Preparation for Dioxins and PCB

DEXTech Pure

# Sample Clean-up with DEXTech Pure

## Dioxins and PCB

### The Solution for Purified Fractions



DEXTech Pure offers the unique clean-up of **PCBs and dioxins** in one “pure” fraction each. This is the perfect solution for customers interested especially in measuring PCBs and dioxins separately within one GC-MS run each or also for customers interested only in PCB analysis, as it is often relevant in the environmental sector. In this case DEXTech Pure offers a 2-column-method reducing the run time.

DEXTech Pure looks the same as DEXTech Plus, but is modified in terms of fluidics and methods.

DEXTech Pure thus enables the fully separation of PCBs and dioxins based on aluminium oxide. Besides this new

method, the conventional clean-up method, as it is established on DEXTech Plus already on aluminium oxide column in its fast and economic method, can also be used.

## 3-Column Set-up with Patented Locking System

The DEXTech Pure system is designed with a 3-column set-up, like DEXTech Plus. Depending on the individual requirements, matrix or desired method, the user can load the DEXTech Pure with different set-ups, simply insert the respective columns - "just click it". No screw connections, no tools, no other manual steps.

From sample to sample - fast, flexible, effortless.

- Acidic silica gel column: depending on the sample SMART column (samples of up to 1,5 g fat) or Universal column (sample of up to 5 g fat)  
Easy and fast change between Universal and SMART-columns by fitting an adapter.
- Aluminium oxide column
- Carbon column: reusable  
Advantage: Cost saving for "pure" PCB analysis, because the carbon column is not needed and replaced by a dummy column.

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



## Fractions

DEXTech Pure is delivered with eight evaluated standard methods stored in the system, which allow the user to start with the real sample processing immediately after installation of the instrument. No method development is necessary. The following methods are available for use with both the Universal Column and the SMART Column.

### Alox Pure Method

The Alox Pure method separates PCBs from dioxins and collects each in one fraction. Altogether, this results in much lower cost per sample and an environmental friendly technology.

### Alox Plus Method

The conventional method, as it is established on the DEXTech Plus already in routine laboratories: Mono-ortho-PCBs together with ndl-PCBs and PBDEs are collected in the first fraction, non-ortho PCBs and PCDD/Fs are collected separately in the second fraction.

\*NEW\* also available DCM-free! [Click here and learn more.](#)

### PCB only Method

Some laboratories are interested in analysing only PCBs. For this case, DEXTech Pure offers a 2-column method. This is based on Alox Pure, but the carbon column is not needed and the dioxin fraction is eliminated. Thus the run time as well as the solvent consumption is shortened and you save the costs of one column.



*Cross-contamination excluded*

### Dioxin only Method

If you only analyse dioxins, the 2-column dioxin only method has a few advantages: The processing time per sample is faster, the column equipment is cheaper as the aluminium-oxide column is not required, and solvent consumption is reduced as only one extraction protocol without pre-cleaning is required. No DCM is required at the same time. Overall, this results in lower cost per sample and an environmentally friendly technology.

### Flexible Parameterisation

Besides the standard methods, you have the freedom to configure the DEXTech Pure system according to your requirements adapted for each sample. The user can freely parameterise a method and save it in the system. Up to 30 methods can be opened and modified at any time and then be saved again under a different name.

## DEXTech Pure: Sample Preparation Done by Specialists

DEXTech Pure provides the established benefits of DEXTech Plus like easy handling, automated sample loading, a wide variety of safety features and good results, already proven by numerous private and governmental institutes.

With the system you can prepare all kind of

- environmental samples, such as soil, sewage sludge, sediments,
- food and feed samples, such as fish, meat, and fish oil, eggs, vegetable oils and animal feed mixtures,
- biological matrices, such as blood

fast, easy, and reliable.



Due to exchangeable columns, permanent rinsing of all parts, which were in contact with the sample, and the fact, that sample and syringe pump have no contact, cross contamination is reliably excluded.

Please contact us

 +49 8082 2717-0  [info@LCTech.de](mailto:info@LCTech.de)

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## Prices and Example Offers

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Information on prices and example offers can be found in the [Distributor-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 \( pdf | 156 KB \)](#)

## Flyer and brochures

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

[DEXTech Pure flyer \( pdf | 1 MB \)](#)

## Press release

[Automated sample clean-up for the PCB and dioxin analysis in „Pure“ fractions](#)

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