

Dioxins S³

Smart Solution Systems



Full solution for Dioxins and PCBs analysis from A to Z

For the first time, BUCHI, MIURA and Shimadzu combine their strengths to offer a full solution for Dioxins and PCBs analysis, from samples extraction to results even with fatty samples.

Combined power:

- BUCHI SpeedExtractor E-916
- + MIURA GO-2EHT/4EHT/6EHT
- + Shimadzu GCMS-TQ NX Series

Benefit from a comprehensive solution combining analysis speed, overall sample cost and throughput – for a better Return on Investment (ROI).

MIURA GO-2EHT/4EHT/6EHT





Shimadzu GCMS-TQ NX Series



Pressurized Solvent Extraction

BUCHI SpeedExtractor E-914/E-916

Wide range of applications

The flexible sample volume and the selection of various process parameters make it possible to use the Speed-Extractor in a very wide range of applications: from trace analysis to quality control, from 1 mL to 120 mL sample size, with a simple or very complex matrix.

Fast and fail-safe

Shortened time to analysis is guaranteed as a benefit of simultaneous extraction and evaporation – processing up to six samples in parallel with solvent extraction within 30 minutes.

Thanks to compatible glassware direct evaporation without manual transfer of the extracts is performed using the Multivapor™ P-12/P-6, the Syncore® Analyst R-12/R-6 or BUCHI's Rotavapor®. The automated extraction cell sealing mechanism ensures increased process safety.

Low running costs

Sustainable cost savings for solvents of up to 70 % are achieved compared to extractions using classical glassware. Operator costs are low as laborious transfer of extracts from extraction to concentration is obsolete.

Powerful Clean-Up

MIURA GO-2EHT/4EHT/6EHT

The MIURA new automated clean-up system is an easy to operate automated system offering a high throughput capacity with the additional advantage of using less solvents and consumables. It provides labs with a high quality extraction as well as high return on investment thanks to an innovative flow path system.

Less solvent consumption

Much faster delivery of 1 mL extracts with a consumption of less than 100 mL of solvent per sample. It uses only 90 mL of hexane as well as 5 mL of toluene and no dichloromethane. This is both user and eco-friendly.

No cross contamination

With a valveless system, there are no solenoid valves on the Dioxins and PCBs flow lines – the system will not bring any cross contamination into your analysis. All columns and tubings are disposable with easy connections.

Fully automated fractionation

It offers efficient concentration and fractionation using special surface-treated adsorbent in the concentration columns. Thanks to heated columns, it gives excellent clean-up.

Smart GC-MS/MS Analysis

Shimadzu GCMS-TQ8050 NX

Smart Productivity

Simultaneous multi-component analysis is now optimized for hundreds of target compounds, dramatically improving productivity. UFMS (Ultra Fast Mass Spectrometry) can acquire up to 32,000 transitions in a single analysis.

Smart Operation

With "Smart MRM", GCMSsolution sets the analytical conditions automatically, making method development painless, fast and easy. In combination with the new Smart Environment Database (registered with 527 components), users can automatically create multicomponent batch analysis methods to reduce complicated analysis preparations prior to creation of calibration curves.

Smart Performance

The exceptionally efficient ion source and the collision cell provide low detection limits. High speed scanning control ASSPTM (Advanced Scanning Speed Protocol) and simultaneous Scan/MRM analysis mode provide high quality library searchable fragmentation spectra and accurate low-level quantitative data in a single analysis.

Contact for BUCHI systems:



BÜCHI Labortechnik AG CH-9230 Flawil 1 Tel.: +41 (0) 71 394 63 63 Fax: +41 (0) 71 394 64 64 buchi@buchi.com www.buchi.com The shown system combination is only available in Europe.

Post-sales service and support are vital and long-term considerations when investing in capital instrumentation for a laboratory. Shimadzu and BUCHI offer complete peace of mind for all aspects of instrument care and delivery of consumables.

Contact for Shimadzu and MIURA systems:



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