

Press Release

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analytica

European premiere

Crude2Pure - from raw material to pure powder

**First automated platform for the production of pure powders
from HPLC fractions /**

Modular design for high sample throughput /

Highest reproducibility and purity

Shimadzu, one of the world leaders in analytical instrumentation, introduces its new platform for automated fraction purification and recovery in the form of highly pure powders. With the Crude2Pure it is possible for the first time to process substances following HPLC fractionation in such a way as to generate high-purity powdered target compounds within a short period of time. With conventional methods this is a time-consuming and labor-intensive process.

Modular design for high sample throughput

The Crude2Pure (C2P) consists of two systems:

- a trapping station that loads and immobilizes the fractions obtained via HPLC fractionation on up to 48 cartridges
- a recovery station that removes interfering byproducts such as solvent residues and water, sets the desired salt form and sprays the product using the patent pending 'Smart Cap' directly into a vial where it is dried. The recovery station can process two cartridges in parallel.

Highest purity, high reproducibility and reliable workflow

With the Crude2Pure, it only takes a few hours to obtain a highly purified powder that is free from solvent residues and that contains very little water from an HPLC fraction. The process is automated and is therefore highly reproducible. For instance a simple user-interface or the encoding of the cartridges support the automation.

Crude2Pure is the ideal platform for the production of, for instance, drug candidates or pilot substances in the milligram range.



Figure 1: The modular Crude2Pure is the first automated platform for the production of pure powders from HPLC fractions.

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