PAL3 SPE

Automated
solid phase extraction



Examples of commercially available SPE cartridges.

CHROMTECH OPTION FOR PAL RTC

PAL3 SPE adds automated SPE cartridge processing to the PAL RTC from CTC Analytics. Target analytes are concentrated and interfering components of the sample matrix are removed.

PRESSURE-TIGHT CONNECTION, CONTROLLED DELIVERY

The cartridge is coupled to the delivery system with a pressure-tight connection. The sample, wash solution and eluent are driven through the sorbent under controlled positive pressure. The closed flow path prevents uncontrolled leakage at the coupling point.

CONFIGURED FOR YOUR METHOD

Suitable commercially available cartridges from different manufacturers can be integrated into the workflow. Cartridge type, solvents, times and volumes are selected for the application.

PAL Sample Control or Chronos controls the process steps. Drying and automatic opening and closing of sample vials can be added where required.

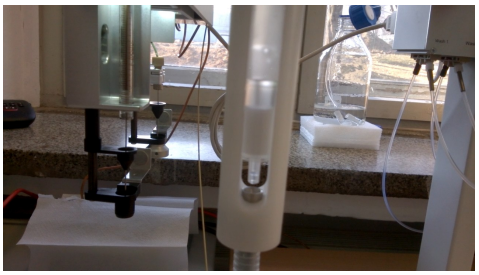
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From cartridge to prepared sample

Four basic steps of automated solid phase extraction.

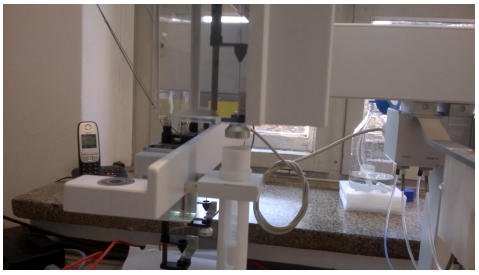
CONDITIONING

The cartridge is wetted with solvent and prepared for sample loading.



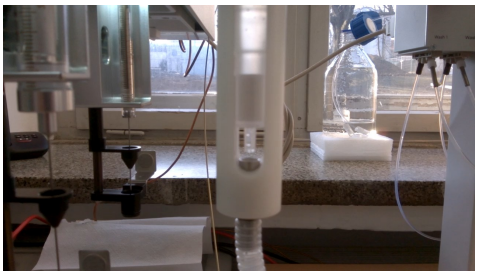
SAMPLE LOADING

The sample is applied to the prepared cartridge and passed through the sorbent in a controlled manner.



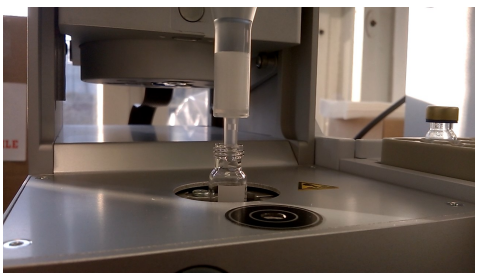
WASHING AND DRYING

Washing removes interfering components. Drying under nitrogen can follow where required.



ELUTION

The concentrated analytes are eluted into the target vial with a defined solvent volume.



Original stills from the CHROMTECH process videos. An example workflow is shown; solvents and process parameters are defined for the individual method.

CHROMTECH supports cartridge selection, workflow planning and PAL RTC integration. Further process videos and the SPE demonstration: www.chromtech.de/en/products/pal3-spe/.

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