PAL SYSTEM
Ingenious sample handling

New for 2016: PAL Pipetting Tool

CLINICAL

LIFE SCIENCE

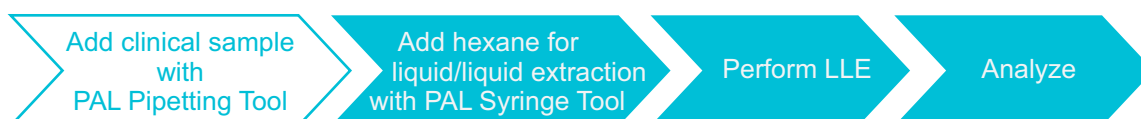**PAL Pipetting Tool - Essential for Life Science and Clinical Applications**

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PAL Pipetting Tool –
Essential for sample preparation

Pipetting liquids with tips is a common practice in life science applications. Here the most important feature is probably the fact that carryover is zero by design because the used tip is discarded after every sample transfer. Moreover, functionalized tips (e.g. for desalting or protein capture) allow for effective sample work-up.

The new PAL Pipetting Tool significantly enhances the PAL System sample prep platform. In combination with the complete range of tools and modules the PAL Pipetting Tool facilitates seamless lab workflows, especially in combination with the PAL Decapper:

Open vial with PAL Decapper → Add internal standard with PAL Pipetting Tool → Close vial with PAL Decapper → Analyze

Only the PAL RTC can switch automatically between pipettes and positive displacement syringes. Pipettes are free from carryover by design. Chemically inert glass syringes are best when highest accuracy and compatibility with organic solvents is required.

Add clinical sample with PAL Pipetting Tool → Add hexane for liquid/liquid extraction with PAL Syringe Tool → Perform LLE → Analyze

Application areas:
– Serial dilutions
– Micro SPE in a tip
– Protein digestion in a tip
– Reformatting of samples
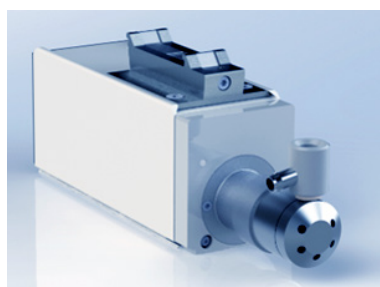– Magnetic bead applications

Highlights:
– Carryover free sample handling
– Complete workflows in combination with PAL Tool and Modules
– Direct injection from the Pipetting Tool into HPLC valves
– Control through many Chromatograhic Data Systems
– Tested PAL Consumables like pipetting tips enhance the performance further

Technical data, preliminary:

Volume ranges: 0-200 µL or 0-1000 µL, depending on tip

PAL3 Firmware:
2.4.x or later

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