

Would you like to integrate your assay on the LabSlice XL?
LabSlice XL is designed as an open platform –
we provide our technology to integrate your assay.

We look forward to getting in touch with you!



CONTACT

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Photographer: Bernd Müller

Microfluidic LabSlice XL platform

Assay automation for complex samples
in laboratory centrifuges

LabSlice XL is an open platform for the automation of diverse analytical and diagnostic assays. Key piece of the technology is a disposable cartridge, which contains all reagents and functions required to perform a particular assay. Also, the cartridge provides interfaces for input of complex samples and for product transfer to downstream applications. The cartridge is operated by a bench-top standard laboratory centrifuge.

Key features of LabSlice XL platform

- ❑ Safe and easy use with low hands-on time
- ❑ Analysis of complex samples
- ❑ Low-priced standard laboratory devices

LabSlice XL device

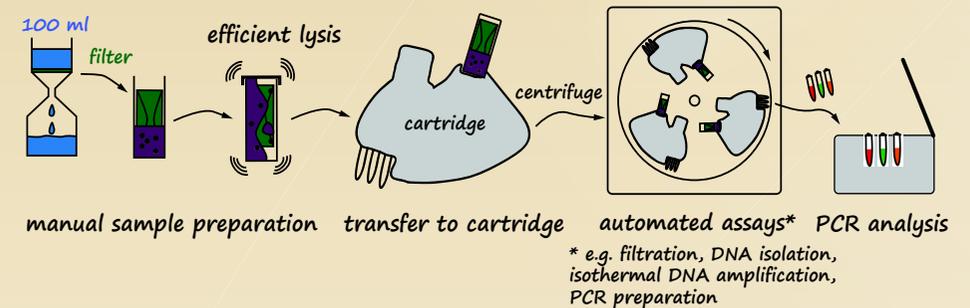
- ❑ A standard table-top laboratory centrifuge
- ❑ Low-priced
- ❑ Depending on the assay: refrigerating or heating system

LabSlice XL cartridge

- ❑ Sample volume up to 4 ml
- ❑ Analysis of complex samples (meat, plant)
- ❑ All required reagents are integrated
- ❑ Up to 12 reagents with volumes between 20 µl and 1 ml
- ❑ Assay automation by a centrifugal microfluidic network
- ❑ Interfaces (e.g. reaction tubes) for product transfer to downstream applications
- ❑ Integration of a lateral flow strip for visualization of test results

LabSlice XL workflow

- ❑ Prepare the sample (e.g. filtration of waste water)
- ❑ Transfer the sample into the LabSlice XL cartridge and close the lid
- ❑ Insert the LabSlice XL cartridge into the centrifuge and start the run
- ❑ Examples for automated assays: filtration, DNA isolation, isothermal DNA amplification, PCR preparation etc.
- ❑ Take out the product (in reaction tubes) for further analysis or look at the result on a lateral flow strip integrated in the cartridge



LabSlice XL applications

- ❑ Detection of pathogens in industrial process water
- ❑ Analysis of zoonotic pathogens in meat samples
- ❑ Monitoring of soil samples
- ❑ Analysis of pathogens in plant samples



LabSlice XL platform using standard laboratory devices



LabSlice XL cartridge



LabSlice XL device: a table-top laboratory centrifuge



Transfer of reaction tubes to a PCR thermocycler