Establishing Micro- and Millireactors worldwide

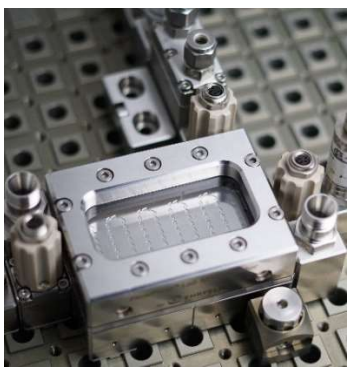
Generica produced in flow reactors at KRKA

In May, our colleague Dr. Jordi Ampurdanés, who belongs to our process development department, conducted an installation and training course at Krka d.d. facilities in Novo Mesto, Slovenia. Krka is one of the world's leading generic pharmaceutical companies, focusing their business activities on the development of high-quality own-brand products. Jordi installed a fully functional MMRS setup, including peripherals (pumps, MFCs and thermostats), in combination with automation concept. In addition, an ART reactor with multiple plates was installed and commissioned as well. Krka researchers will make use of our equipment and experience to conduct their research work on the development of generic pharmaceuticals under continuous flow conditions.

Ilmac 2021 in Basel

Ilmac 2021 is an attendance event at the exhibition center in Basel from the 19th of October until the 21st of October. ILMAC has been the only Swiss industrial trade fair for chemistry and life sciences since 1959, which shows all industrial applications of process and laboratory technology. We would be more than happy to get in contact with you in person again and to answer all appearing questions concerning flow chemistry, micro- and millireactors, scale-up, production etc. You can meet us at the booth of HiTec Zang in hall 1 at booth C185. HiTec Zang is showing a running MMRS system including a FlowPlate Lab reactor. This is the perfect R&D tool to translate your reaction from Batch to Conti easy and fast.

Process intensification of ozonolysis reactions using dedicated microstructured reactors



The high gas to fluid ratio of ozonolysis is hard to handle in traditional batch reactors. This publication describes the development of ozonolysis reactions within a FlowPlate Lab reactor surrounded by a modular microreaction system (MMRS) suitable for challenging gas-liquid transformations. The optimization of the reaction conditions for the

ozonolysis of cyclohexene to hexanedial, and thioanisole to methyl phenyl sulfoxide is presented. Cyclohexene is transformed to hexanedial in 94% yield at 0 °C within 1.7 seconds. In a similar fashion, the ozonolysis of thioanisole was achieved in 99% yield at 0 °C within <1 second. Please read more about the details here.

If you have any questions, we will be pleased to answer them by phone, email or in a personal meeting. Visit us under www.ehrfeld.com to obtain an initial impression of our technology.

Or meet us in person at the next event:

Ilmac, booth C185 (HiTec Zang)
19th – 21st of October 2021 in Basel, Switzerland

ILMAC

In case of further questions, please do not hesitate to contact us:
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Kind regards,
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