

Established applications for Free Flow Electrophoresis as well as new protocols proof the value of FFE in various fields of analytics and research:

Gerhard Weber, Markart Meckel, Christian Reiter ,; FFE Service GmbH

The actual semi-automatic FFE instrumentation is the result of continuous improvement and adaptation to new challenges since 30 years.

The introductions of thinner spacers and pH step gradients have paved the way for the development of new protocols with improved resolution of analytes.

Recent hallmarks of development are the addition of a robotic system for sample collection to automatically run multiple cycles of interval zone electrophoresis for large scale preparative demands and the automated safety control for the separation chamber. The extremely stable processes are facilitating high-resolution separations in continuous day and night runs up to more than 100 hours.

For temperature sensitive samples the whole instrument can be sunken and operated in a cool box.

Here we present among other typical applications the most recent results with improved protocols, using FF-IZE-pH- and FF-ZE-process.