



**microfluidic ChipShop
GmbH**

[www.microfluidic-
ChipShop.com](http://www.microfluidic-ChipShop.com)

Address:

Stockholmer Straße 20
07747 Jena
Germany

Contact person:

Dr. Holger Becker

[hb@microfluidic-
chipshop.com](mailto:hb@microfluidic-chipshop.com)

Company Profile

microfluidic ChipShop, founded 2002, is one of the leading polymer microfluidic service providers worldwide. The company has extensive experience in microfluidic design and development as well as a complete industrial infrastructure for polymer-based microfluidic devices using volume fabrication methods including tool-making, injection-molding, and back-end processing under cleanroom conditions. In addition, the company operates application laboratories for fluidic and application validation

Business Field/Core Technology/Strength

High resolution, low cost electrodes in microfluidics - an unsolved problem

Many life science applications require electrical signals as in- or output. As most of such experiments take place using consumables made out of polymers, there is the need for low-cost manufacturing of such electrodes. In addition, the electrode material and its processing has to be biocompatible, substrates usually are hydrophobic and the allowable thickness of such electrodes is of the order of <400nm. So far, we have not been able to find a technology which caters for all these requirements.