

# M-111 Basic Microreactor

Version delivered from 1<sup>st</sup> October 2014

## Technical Specifications

### Microreactor

The basic microreactor is designed for general two component chemical reactions. The basic microreactor is compatible with the *FlowStart* and *FlowScreen* and is supplied in a green cartridge for easy handling. This microreactor type is the most basic and consist of two inlets with a mixing unit, followed by a long channel compartment.

### Channel Lay-out

The channel layout is shown in Figure 1. The basic microreactor consist of two inlets which are located on the left side of the microreactor, the outlet is situated at the right side. Please note that the channels in this drawing are schematic in two dimensions; the actual channel geometry is in three dimensions and cannot be represented by this scheme.

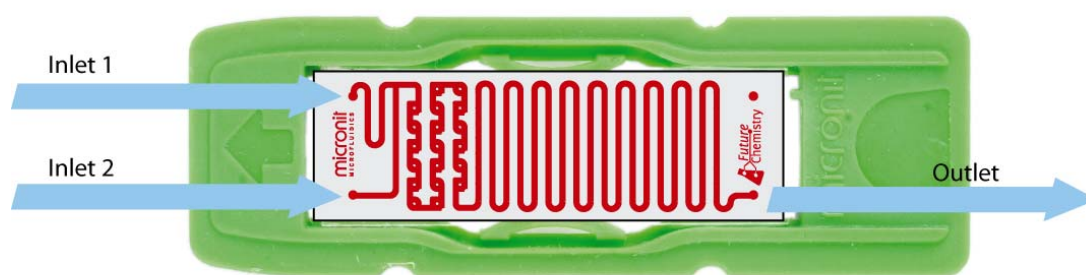


Figure 1: Schematic view Basic Microreactor channel lay-out

### Specifications

M-111 Basic Microreactor	
Outer dimensions	45.3 x 15.3 x 2.2 mm
Material	Borosilicate glass
Top diameter hole	300 $\mu\text{m}$
Bottom diameter hole	1170 $\mu\text{m}$
Channel width (maximum)	700 $\mu\text{m}$
Channel depth	500 $\mu\text{m}$
Effective reaction volume	112 $\mu\text{L}$