

# μTongue

: A Microfluidics-Based Functional Imaging Platform for the Tongue *In Vivo*



CATEGORY:

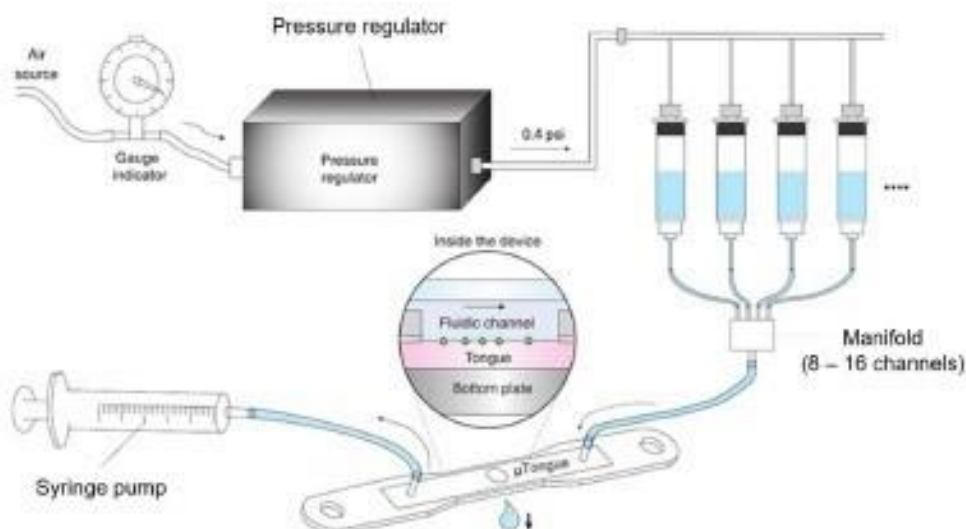
Behavior for Rodent/Sensory&Pain Response

Model number: BLI-MT01

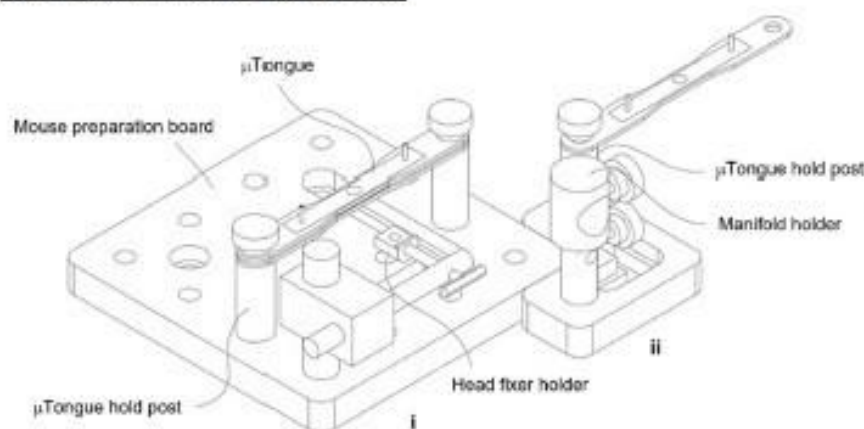
## Description

The μTongue is a microfluidics-based functional imaging platform for the mouse tongue *in vivo*. μTongue is designed for the functional images of taste cells *in vivo* under controlled exposure to multiple tastants. The complete system consists of two parts: (1) Microfluidic systems and (2) Mouse preparation board. Utilizing high-resolution cameras and microscopy, this system allows for detailed observation of tongue structures, while microfluidic technology ensures precise delivery of substances.

### 1. Microfluidic Systems



## 2. Mouse Preparation Board



### Features

- **Microfluidic systems:**  
Pressure regulator, Reservoir manifold, and Syringe Pump.  
(Each product can be purchased separately according to the experimental configuration. Please contact us to [info@beonli.com](mailto:info@beonli.com) for the system configuration.)
- **Mouse preparation board with the  $\mu$ Tongue unit:**
  - Base plate 1 works for in vivo imaging station holding the mouse and  $\mu$ Tongue unit
  - Base plate 2 supports  $\mu$ Tongue hold post and manifold holder
  - Compact size, easy to handle and clean

### Specifications

#### Microfluidics system

Pressure regulator	-
Manifold	-
Syringe Pump	-

\*\* Please contact us for the system configuration

#### Mouse Preparation Board

Base Plate 1	10 x 10 x 1 (cm)
Base Plate 2	5 x 5 x 1 (cm)
Material	Aluminium / Stainless Steel
Weight	0.4 kg

### Reference

1. <https://www.jove.com/kr/t/62361/tongue-microfluidics-based-functional-imaging-platform-for-tongue>