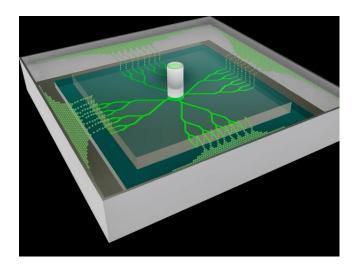
# **High Throughput Droplet Generator**

**TECHNOLOGY NUMBER: 2026-156** 



#### **OVERVIEW**

A high-throughput droplet-generating microfluidic device capable of reproducibly generating monodispersed droplets with diameters between 65-370  $\mu$ m. Operation of this device requires only the droplet solution to be loaded into a syringe the syringe connected to the device (via a blunt end cannula or tubing) and the device submerged in a higher-density fluorinated oil with surfactant.

These devices feature a design that is relatively insensitive to fluctuations in fluid flow rate – and can be operated using manual (e.g. by hand) or automated fluid injection (e.g. via syringe pumps) which has been tested with flow rates up to 10 mL/hour. Each device is manufactured using PDMS and is compatible with multiple aqueous containing polymer solutions (e.g. polyethylene glycol, hyaluronic acid).

Droplet generation depends on the size of the microfluidic device channels.

## **HOW TO ORDER:**

Note: each order includes ten devices. Protocols on how to use the system will be provided once ordered.

Select the "Order Now" button located on the right hand side, and please specify the following:

### **Technology ID**

2026-156

#### Category

Medical Devices Life Sciences

#### **Inventor**

Sasha Cai Lesher-Perez

#### **Further information**

Aparna Bubna abubna@umich.edu

#### View online



- 1. Approximate diameter of droplets you are aiming for which will specify which channel geometries will be provided to you. Average droplet size may be slightly shifted by specific polymer solution though sizes will be approximately the listed average droplet diameter.
- 2. Approximate droplet diameters (in microns) to designate device dimensions: 65, 75, 100, 150, 250, 370

If you have any additional questions, please select the "Contact Us" button and the Licensing Manager will contact you shortly.