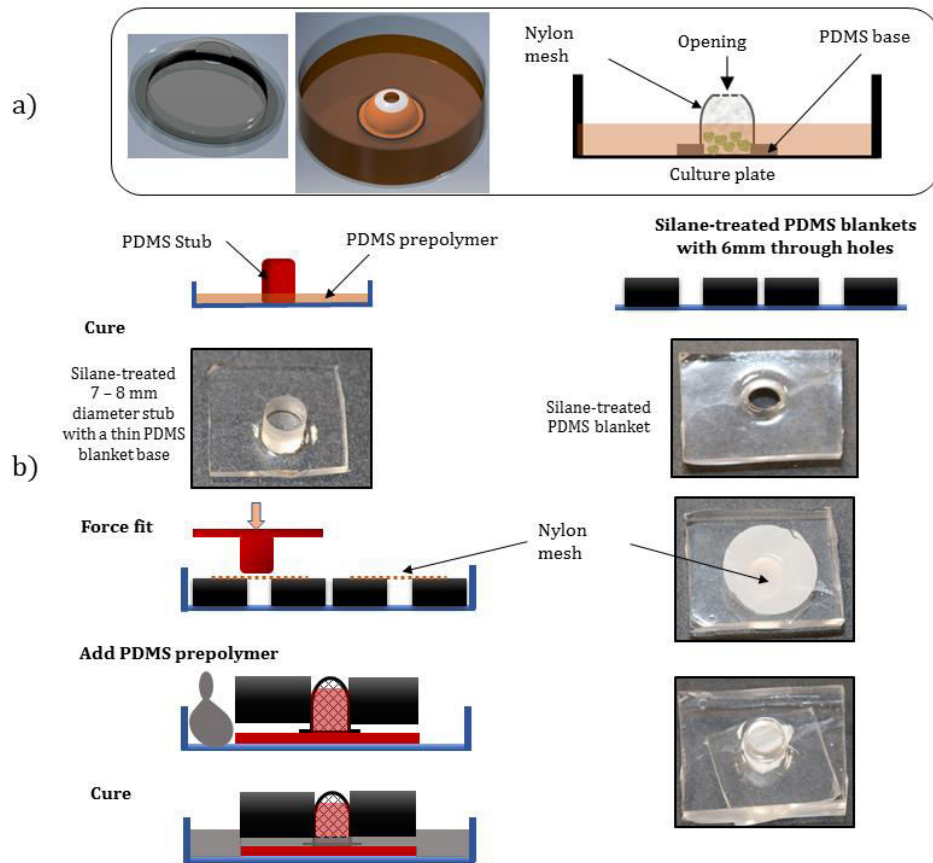


## SPHEROID TRAPPING DEVICE



**Description:** Spheroids are three-dimensional (3D) cell cultures that arrange themselves during proliferation into sphere-like formations. Platforms for facilitating the formation of uniform Spheroids lack a means to prevent the aspiration of cells during medium changes and other sample preparation steps, which require rinsing. During these operations, care must be taken to avoid aspiration of cells, which limits opportunities for automation. We developed a simple spheroid trap device to address this problem. The figure above illustrates our simple spheroid trap design and fabrication. (a) To the left, a computer model of a spheroid trap; the inset in the middle demonstrates how the device may be incorporated into a tissue culture plate, and as illustrated (inset extreme right), spheroids are seeded via the opening at the top of the device and medium partially filled to keep spheroids confined in the mesh. (b) schematic illustrating the fabrication process.

**Reference:** Ndyabawe, K.; Haidekker, M.; Kisaalita, W.S. Spheroid trapping and calcium spike estimation techniques toward automation of neurospheroid culture. *SLAS Technology* (2020), DOI: 10.1177/0123456789123456.