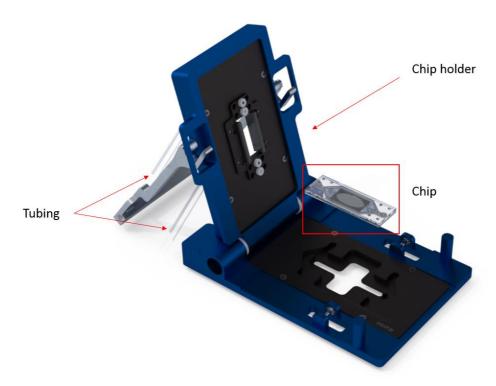


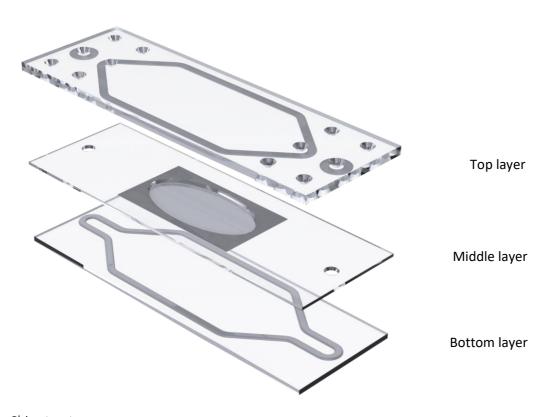
Organ-on-a-chip Quick Start Guide







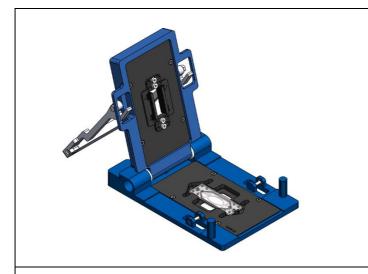
Single slot inserts



Chip structure



Organ on a chip – available inserts



Single slot OOC 45x15 with 0.4mm middle layer: top insert 001.04.xx

bottom insert 003.07.xx

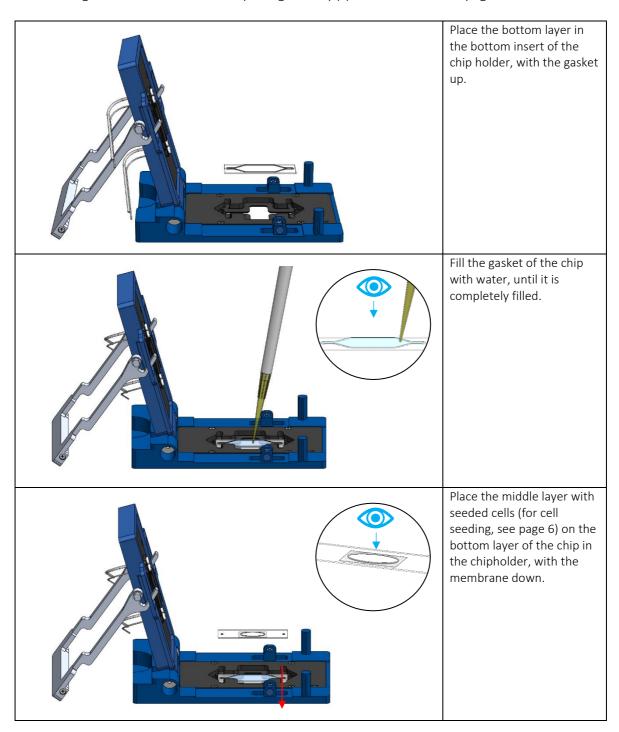


Single slot OOC 45x15 with 2.0mm middle layer: top insert 003.08.xx bottom insert 003.09

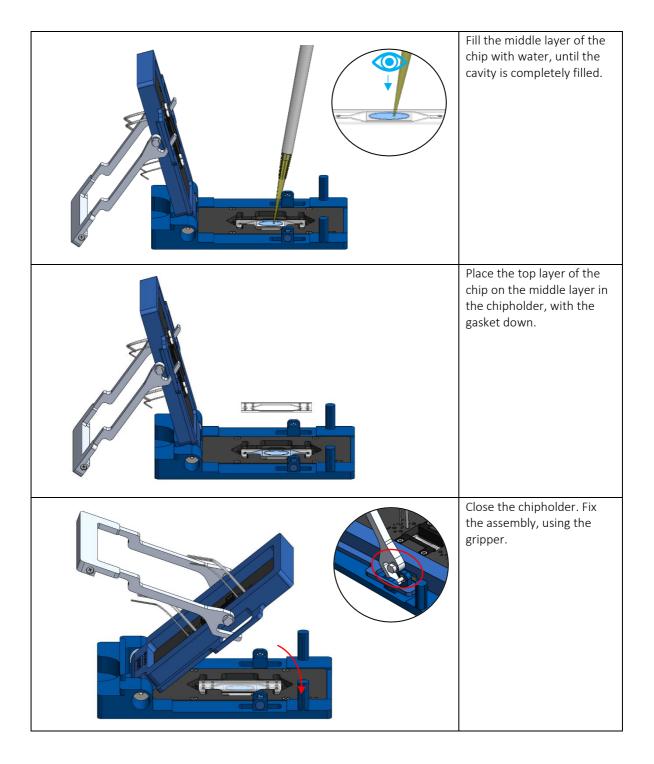


$Chip\ assembly-In\ Fluidic\ Connect\ Pro\ ({\tt recommended}\ {\tt for\ single-slot}\ {\tt inserts})$

Note: tubing can be assembled before placing the chip(s) or afterwards. See pages 11-15.



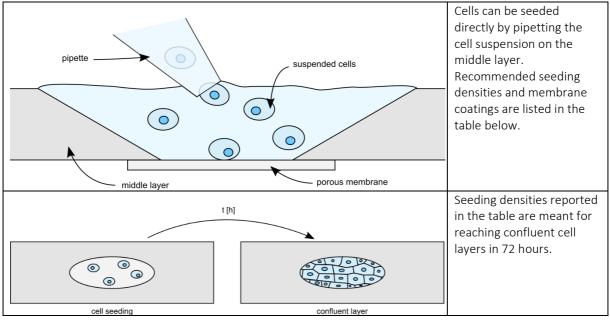






Cell culture

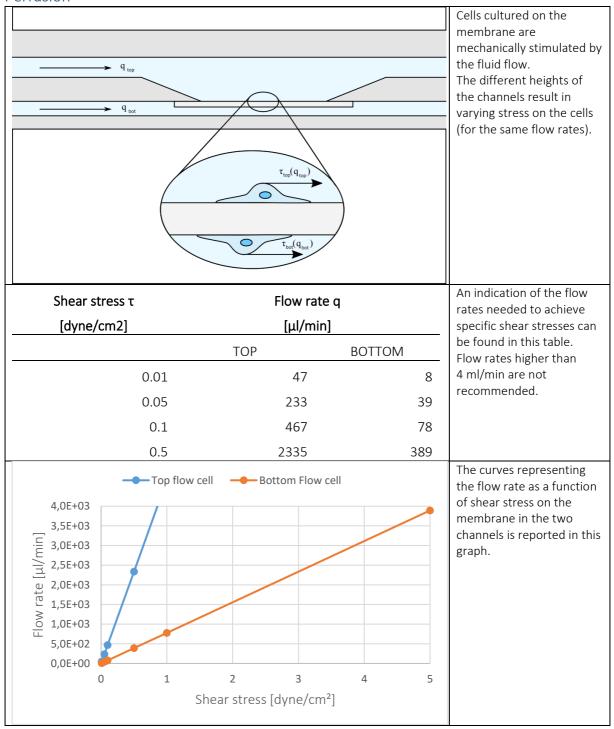
Cell seeding



Cell type	Seeding density [cells/cm ²]	Time for confluency [h]	Coating	Density [μg/cm²]	Time before assembly [h]
HUVEC	140-350 x10 ³	72	Fibronectin	10-100	2
A549	35 x10 ³	72	Fibronectin	10-100	2
Calu-3	300 x10 ³	72	No coating	-	-



Perfusion



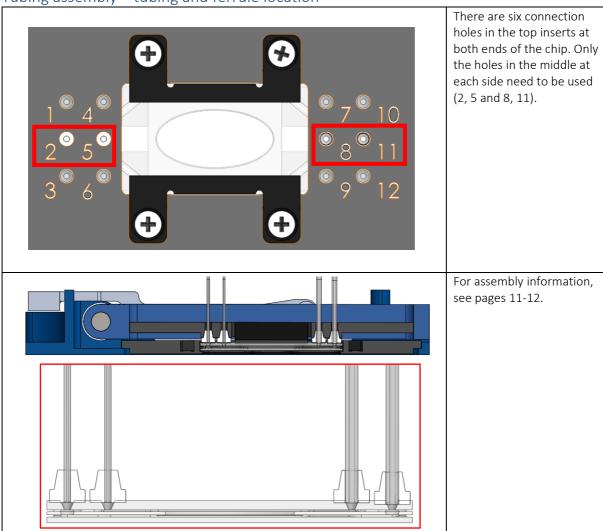


Tubing

Tube preparation

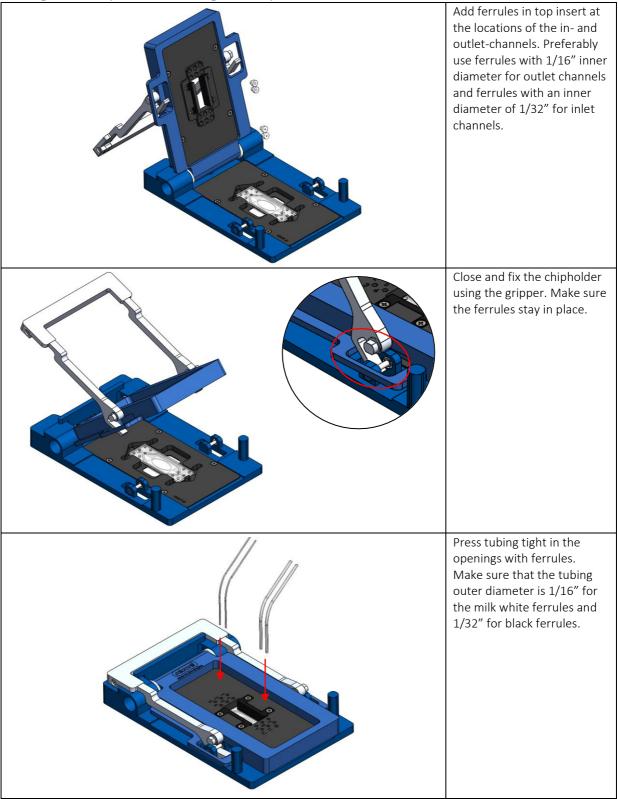
To prepare the tubing before use, use a tube cutter. Make sure a sharp blade is used and cut tubes according to the instructions of the tube cutter. Cut all tubes at the same length.

Tubing assembly – tubing and ferrule location

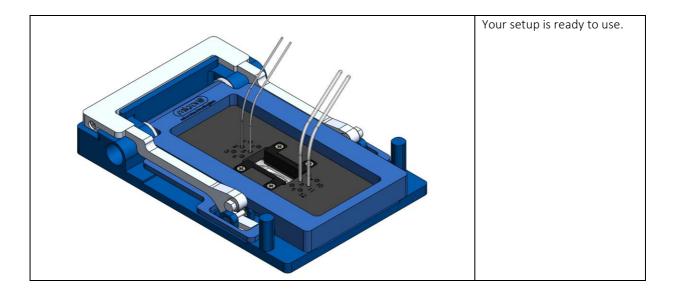






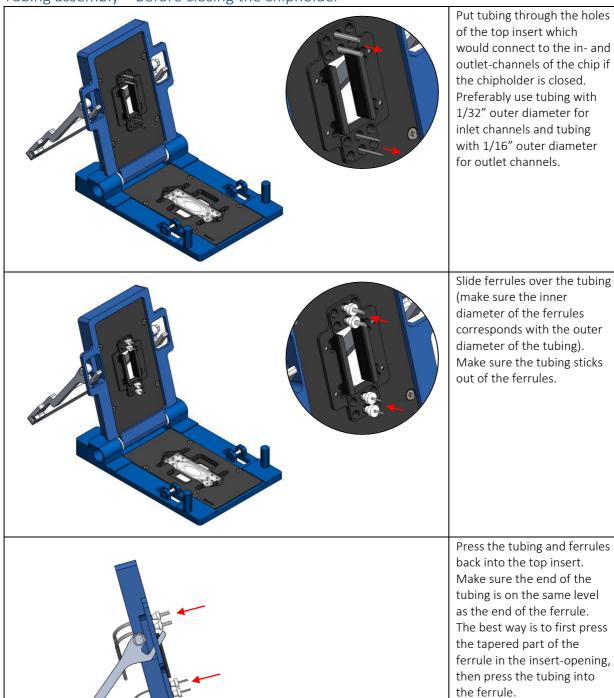




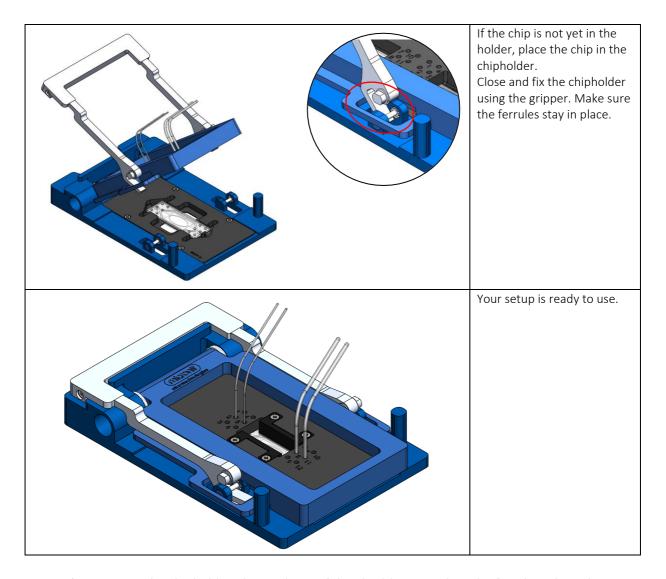












Note: After opening the chipholder, the top layer of the chip(s) may stick to the ferrules. Please be cautious when opening the chipholder.



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