

## User Guide: Fixed Chip Imaging Adapter

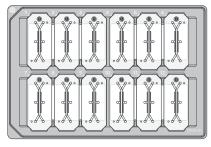
November 2019 EP206 v1.0 The purpose of the Fixed Chip Imaging Adapter is to organize fixed Organ-Chips in a standard SBS footprint for high-throughput imaging. This guide covers three configuration options to limit evaporation, depending on the duration of the imaging session.



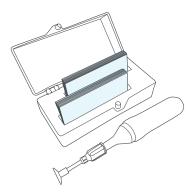
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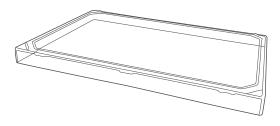
# What's in the Fixed Imaging Adapter Kit



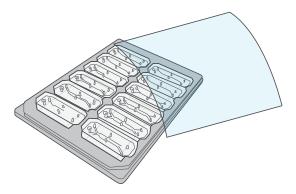
1 Chip Imaging Adapter (holds up to 12 chips)



60 Glass Coverslips (50 x 24mm), 100 Plastic Coverslips (50 x 24mm), & 1 Pick-up Tool



5 Universal Clear Lids



5 Sealing Films



### Chip channels stay hydrated for 45 to 80 minutes



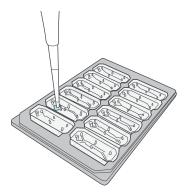
Place chip in one end at a time.



Gently press down around edges of chip to ensure the chip is level.



Aspirate Excess PBS



Aspirate any excess PBS from the top surface of all chips.

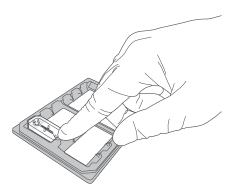




### Chip channels stay hydrated for 4 to 6 hours



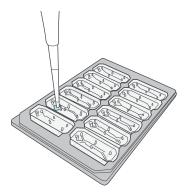
Place chip in one end at a time.



Gently press down around edges of chip to ensure the chip is level.



Aspirate + Apply Sealing Film



Aspirate any excess PBS from the top surface of all chips.



Apply sealing film. Compress sealing film against chips by pressing down with fingers or using a roller.





### Chip channels stay hydrated for 12 to 48 hours



Use Coverslip Pick-up Tool to pick coverslip from package.



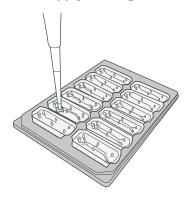
Place Chips



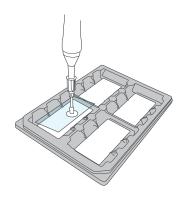
Place chip in one end at a time.



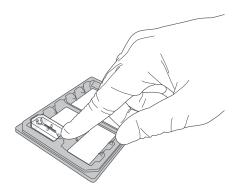
Aspirate + Apply Sealing Film



Aspirate any excess PBS from the top surface of all chips.



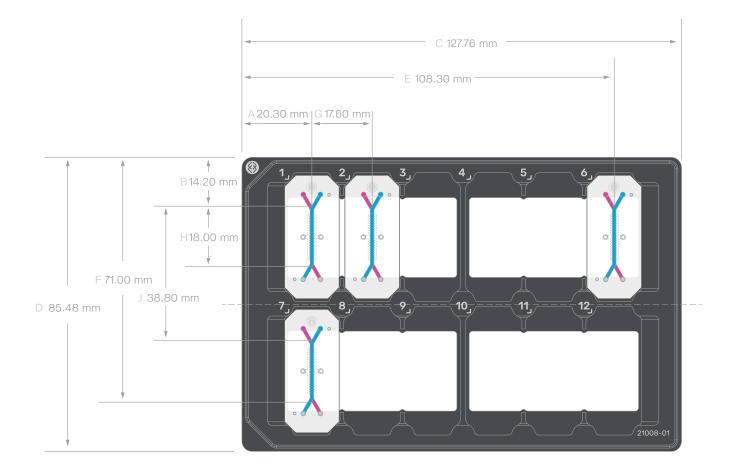
Use Pick-up Tool to place coverslip in Fixed Chip Imaging Adapter.



Gently press down around edges of chip to ensure the chip is level.

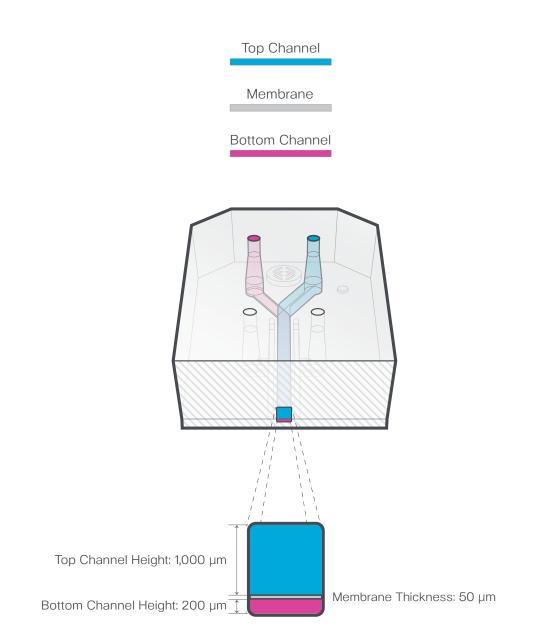


Apply sealing film. Compress sealing film against chips by pressing down with fingers or using a roller.

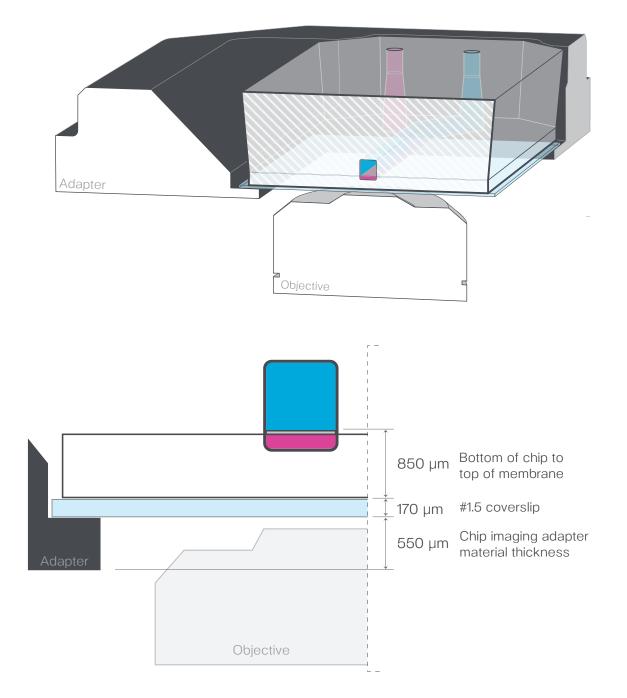


- **A** 20.30 mm
- **B** 14.20 mm
- **C** 127.76 mm
- **D** 85.48 mm
- **E** 108.30 mm
- **F** 71.00 mm
- **G** 17.60 mm (distance between chip zero-reference points)
- H 18.00 mm (chip channel length)
- J 38.80 mm (distance between chip zero-reference points)





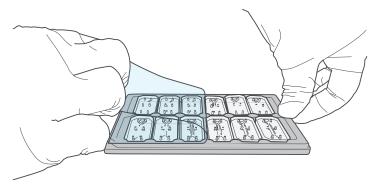
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## Post Imaging

#### **Remove Sealing Film**



Slowly peel sealing film off at a low angle and the sealing film will release from the top surface of the chips.

#### **Remove Chips with Coverslip**



Use index finger on glass side and thumb on chip side to push out coverslip with three chips together.

#### **Remove Chips**



If coverslips were not used, then simply press against long side of chip and pick out of Fixed Chip Imaging Adapter.



Gently peel chips, one at a time, from coverslip.

### **Replenishment Ordering Information**

24 x 50 #1.5 (0.17 mm) Cover Glass: Product number: 260422 tedpella.com

24 x 50 x 0.28 mm Plastic Coverslip: Product number: 72261-50 emsdiasum.com

Universal Microplate Lids: Part number: L3411 sigmaaldrich.com

Handi-Vac Coverslip Pick-up Tool Product number: 528-99 tedpella.com





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