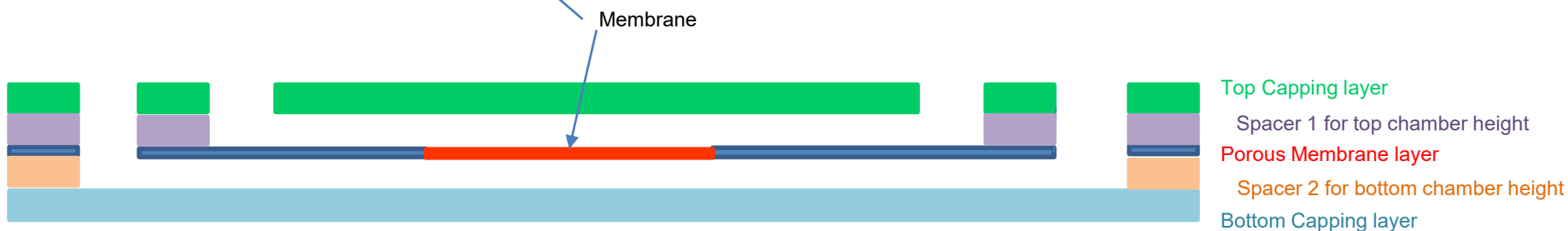


Organ on Chip Two chamber culture device

Review the options below and fill in as best you can. Then send to sales at info@alineinc.com. Call 877-707-8575 to have an engineer guide you through the process.



Fill in your material Choices; see next slide for typical options

| Material | Thickness | Layer |
|----------|-----------|--|
| | | Top Capping layer |
| | | Spacer 1 for top chamber height |
| | | Porous Membrane layer (dark blue spacer chosen to match membrane thickness, membranes are typically 100 to 150 microns thick. Typically Sterlitech or TRAKETCH membranes are used. See next page for filter options. |
| | | Spacer 2 for bottom chamber height |
| | | Bottom Capping layer |

Typical Choices of Materials

| Material | Thickness | Layer |
|---|---|---|
| Acrylic, COP COC | .5mm to 1.5 mm 50 micron 250 micron | Top Capping layer |
| Silicone Adhesive/PET | 75 to 1000 microns | Spacer 1 for top chamber height |
| Porous membrane: TRAKETCH, nylon, PS, PES, see Sterlitech website | Typically between 75 & 150 microns | Membrane. See the following websites for options: <ul style="list-style-type: none"> • Polycarbonate Track Etch (PCTE) - hydrophilic • Polyester Track Etch (PETE) – hydrophilic • Polycarbonate track etch (PCTE) - hydrophobic |
| Silicone adhesive/ PET | To match membrane thickness | membrane |
| Silicone Adhesive/PET | 75 to 1000 microns | Spacer 2 for bottom chamber height |
| Glass slide Acrylic Polystyrene (breathable) | 1 mm .5 mm 50 microns | Bottom Capping layer |
| Polycarbonate Tube stub | For use with 1mm ID soft silicone tubing PEEK, .009" to .030" ID | Hose barb connectors (NOT low dead volume) Tube stub connectors (low dead volume) |
| Upchurch NanoPort Connectors | .015" OD, 0.030" OD | Surface mount fittings with adhesive tape (low dead volume) |

