

## Specification: Microfluidic Starter Kit

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| Product Code                  | MF_STARTER_KIT_PLATFORM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Contents                      | <p>3 Packs of Microfluidic chips selected by you from our standard fluidic chips range 1 Fluidic Connect PRO Chipholder 2 Syringe Pump, type NE-300</p> <p>Accessories:</p> <ul style="list-style-type: none"> <li>• 2 x Syringe 1ml</li> <li>• 3 x Syringe 10ml</li> <li>• 1 x Reservoir 250ml</li> <li>• 2 x 1/16" ETFE tube (ID 0,75mm)</li> <li>• 5 x Micronit Ferrule (FFKM)</li> <li>• 6 x Syringe Luer connector (10-32 threaded)</li> <li>• 5 x Flared nut with ferrule (10-32 threaded)</li> <li>• 10 x plugs, 5x white, 5x red (10-32 threaded)</li> <li>• 1 x Tube cutter</li> <li>• 1x Tip driver no. 0x35</li> <li>• 2x Spacer (0,5mm)</li> <li>• 2 x Micro-microscope</li> <li>• 1 x Micronit USB stick (info and manuals)</li> </ul> |
| Dimensions                    | 128 mm x 85,4 mm x 20 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Material                      | Aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sealing mechanism             | Load 'n Seal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Maximum operation temperature | 80°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Max. operating pressure       | 10 bar                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sealing material              | Perlast (FFKM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Number of chips per pack      | 2 or 3 (depends on the types chosen)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Chip size                     | 45 mm x 15 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Supplied in Fluidic slide?    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Material chip                 | Borosilicate, COC or PC (depends on the types of chips chosen)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Material black cartridge      | Polypropylene                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Dimensions                    | 22,86 cm x 14,605 cm x 11,43 cm (LxWxH)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Weight                        | 1,63 kg per pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum operating speed       | 3.7742 cm/min                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum operating speed       | 0.004205 cm/hr                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Maximum pumping rate          | 1257 ml/hr with a B-D 60 cc syringe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Minimum pumping rate          | 0.73 µl/hr with a B-D 1 cc syringe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Maximum force                 | 15,876 kg. (35 lbs.) at minimum speed, 8,165 kg. (18 lbs.) at maximum speed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Syringe sizes                 | up to 140 cc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Syringe inside diameter range | 0.100 to 50.00 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

