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MATERIALS

# T-Junction Droplet Microfluidic Chip, PDMS/Glass, 100x50µm Channel, Plasma-Bonded, with PTFE Tubing & Syringe Kit, 75x25mm Slide, for Lab Research (RUO)

T-junction droplet chip with 100 µm-wide x 50 µm-deep channels, RTV615 PDMS plasma-bonded to borosilicate glass. Includes PTFE tubing and syringe. Tight droplet size distributions at low flow rates for lab research (RUO).

**Microfluidic Chips**

Microfluidics & Life Science

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## Product Overview

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he T-Junction Droplet Microfluidic Chip uses a classic T-junction geometry with 100 µm-wide x 50 µm-deep channels to generate controlled droplet break-up with tight size distributions. The optimized 50 µm channel depth yields narrower droplet-size distributions at lower flow rates compared to deeper designs. RTV615 PDMS is permanently plasma-bonded to 1 mm borosilicate glass for a leak-free seal and excellent optical clarity. The complete starter kit includes PTFE tubing, blunt needle tips and a syringe; 0.7 mm ports connect to standard microfluidic fittings. Standard 75x25 mm slide format fits common chip holders. Ideal for droplet generation, emulsion studies and multiphase-flow research. **For research use only (RUO). Not for use in diagnostic or therapeutic procedures.**

In stock at Amazon warehouse, ship same day: https://www.amazon.com/dp/B0H6DQBG4G

## Technical Specifications

| Parameter | Value | Unit |
|---|---|---|
| Material | RTV615 PDMS / Borosilicate Glass | |
| Channel Geometry | T-Junction | |
| Channel Width | 100 | µm |
| Channel Depth | 50 | µm |
| Chip Format | 75 x 25 (Slide) | mm |
| Substrate Thickness | 1 | mm |
| Port Size | 0.7 (22-gauge compatible) | mm |
| Bonding | Oxygen Plasma (Permanent) | |
| Fabrication Tolerance | ±5 | µm |

| | | |
|---|---|---|
| Operating Pressure | <= 0.3 | MPa |

## Order / Quote

| Model | Pack Size | Availability |
|---|---|---|
| **LC-DG-700008** | 1x PDMS/glass chip (75x25 mm), 1x PTFE tubing set, 2x blunt needle tips, 1x syringe, 1x sealed ESD bag with RUO label | In stock (Amazon / direct) |

**Current pricing and ordering: labcorematerials.com/products/t-junction-droplet-microfluidic-chip/**

## Shipping & Compliance

- Ships as empty microfluidic hardware. No reagents, no biological materials. Not classified as dangerous goods.

## Contact

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labcorematerials.com/products/t-junction-droplet-microfluidic-chip/