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Tunnel Slide Preparation for Motor Speed Recordings

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ABSTRACT

Preparation of our standard tunnel-slide, used for BFM speed measurements and experiments involving rapid media exchange.

MATERIALS

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- Microscope Slides Fisher Scientific Catalog #12332098
- Coverslip 22x40mm #1 Fisher Scientific Catalog #12332118
- Scotch Double Sided Tape Scotch® Brand Catalog #7100107082

SAFETY WARNINGS

- Coverslips are really sensitive and could break when assembling the tunnel slide. For your safety wear adequate eye protection.

BEFORE START INSTRUCTIONS

Make sure coverslips and microscope slides are sterile and dust-free

Protocol status: Working
We use this protocol and it's working

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Tunnel Slide Making

1

Take out 22x40 mm coverslips and standard microscope slides.

2

Cut 2 pieces of Scotch sticky tape and tape them perpendicularly on the microscope slide.

Note

The separation between the tapes should be approximately 3-4mm apart from each other.

3

Cut the excess tape off with a razor and place the coverslip onto the slide gently.

Use pipette tips to push it down gently and to remove air.

4

Once finished, flip the tunnel slide so that you have the coverslip at the bottom and the tunnel entries are accessible .

Note: The channel that was made on the slide has a capacity of 8-10 uL.