

SAMPLE PREP GUIDE FOR CELLS

Mizar Tilt Light Sheet Imaging
www.mizarimaging.com

Follow these sample prep instructions for cultured cells for successful light sheet imaging with the Tilt.

Proper sample prep is critical.

1

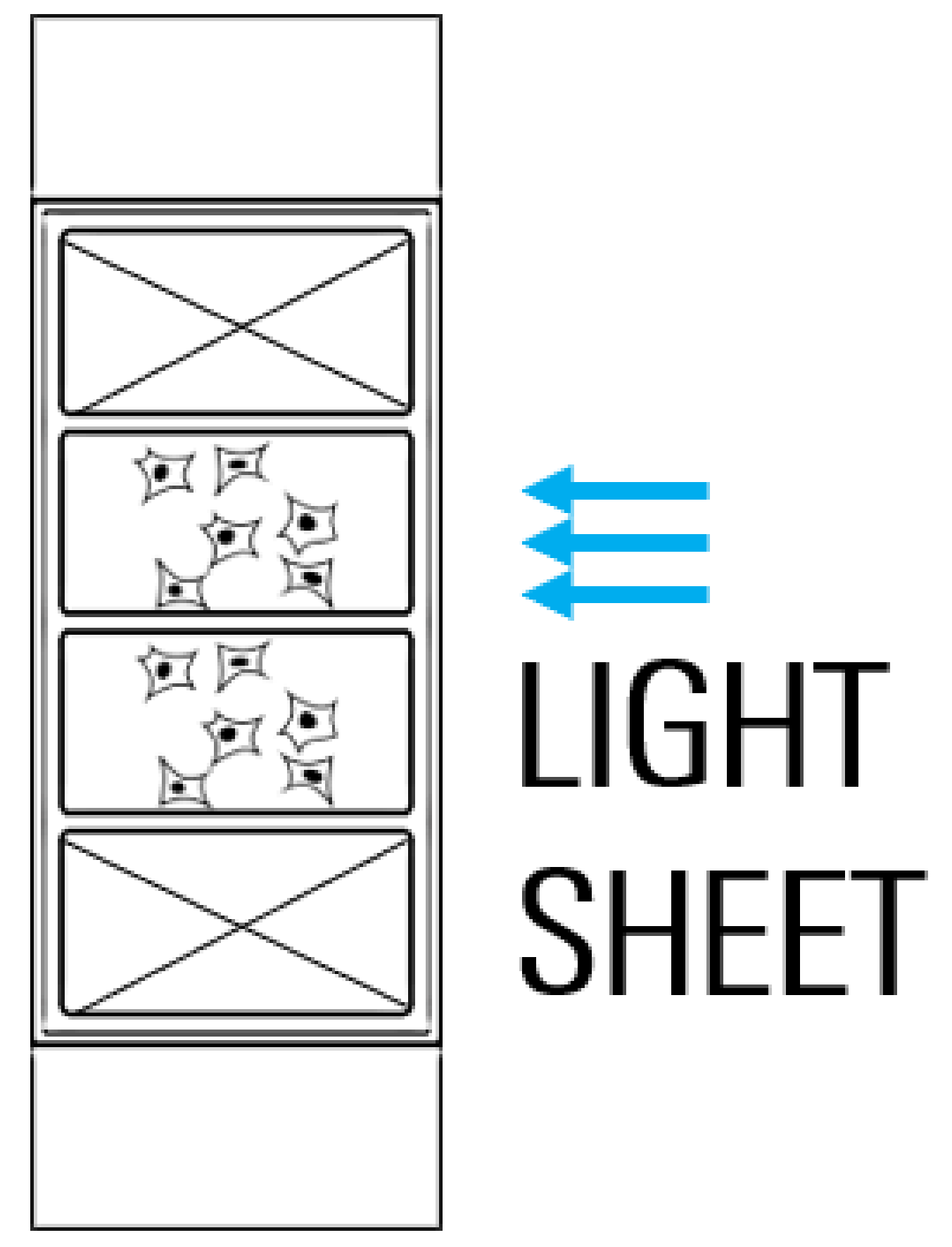
Sample Holder

Use sample holders that are compatible.

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The Tilt launches the light sheet from the right and must not be obstructed on its way to your sample. The sides of the sample holder must be optically clear and flat.

We recommend Ibidi 4- or 8-well chambers with #1.5 coverslip bottoms: 80426 or 80826. Plate in the inner wells only.



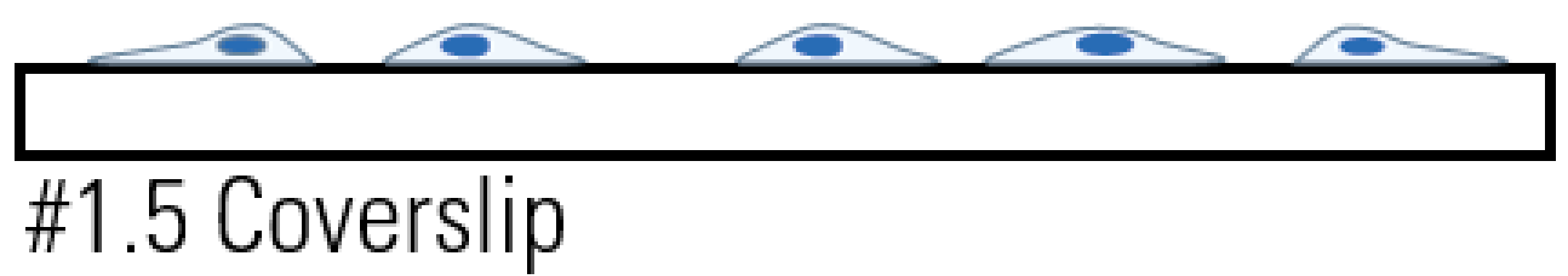
2

USE #1.5 COVERSGLIPS

Always use with high NA objectives.

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One of the major advantages of the Tilt is that it is compatible with high numerical aperture (NA) objectives. All high NA objectives are designed to work with #1.5 coverslips. These coverslips have the correct thickness of 170 μm .

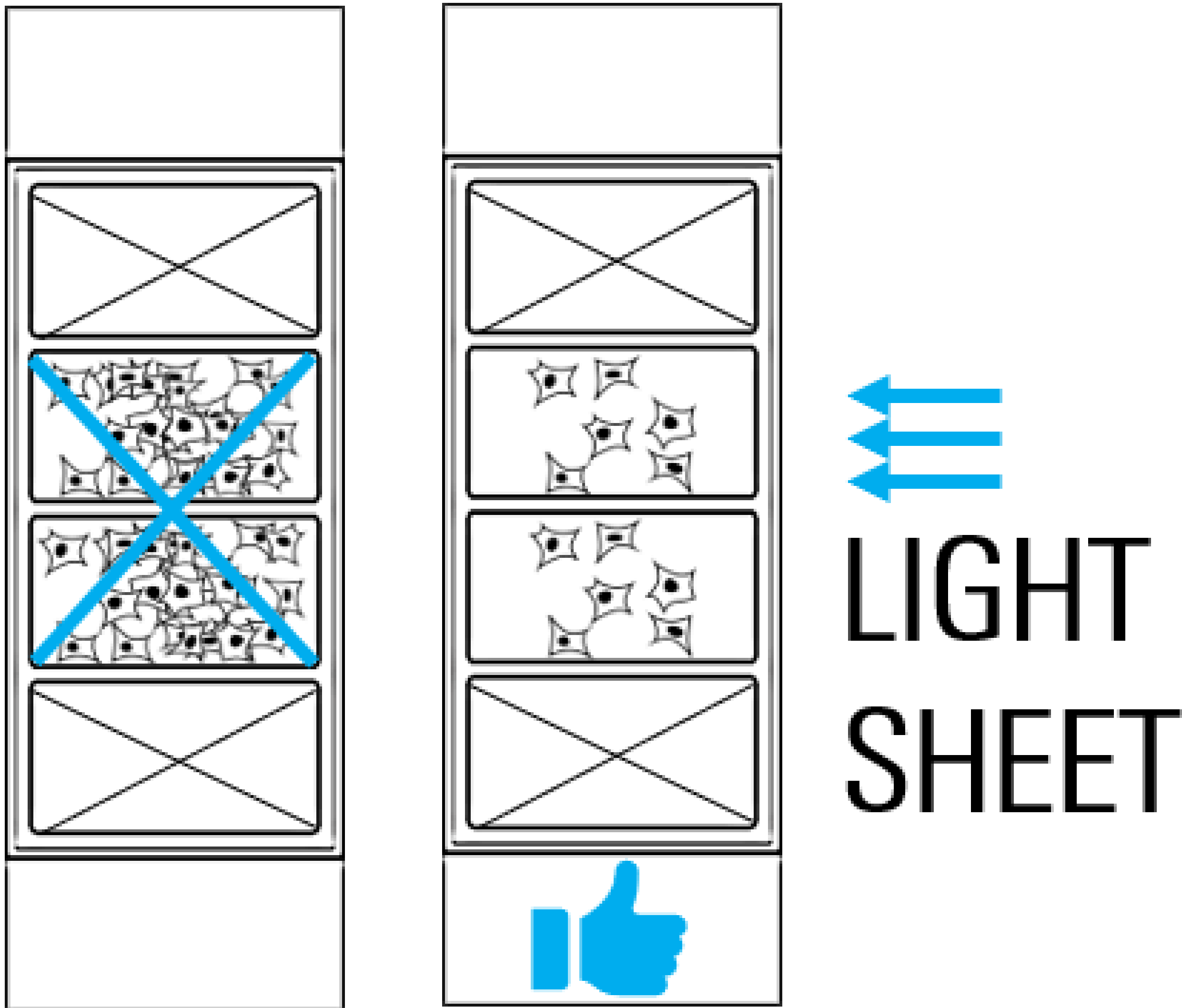


#1.5 Coverslip

3

LOW PLATING DENSITY

Plate your cells with 30% confluency or less. This helps ensure that nothing obstructs the light sheet on the way to your cells.



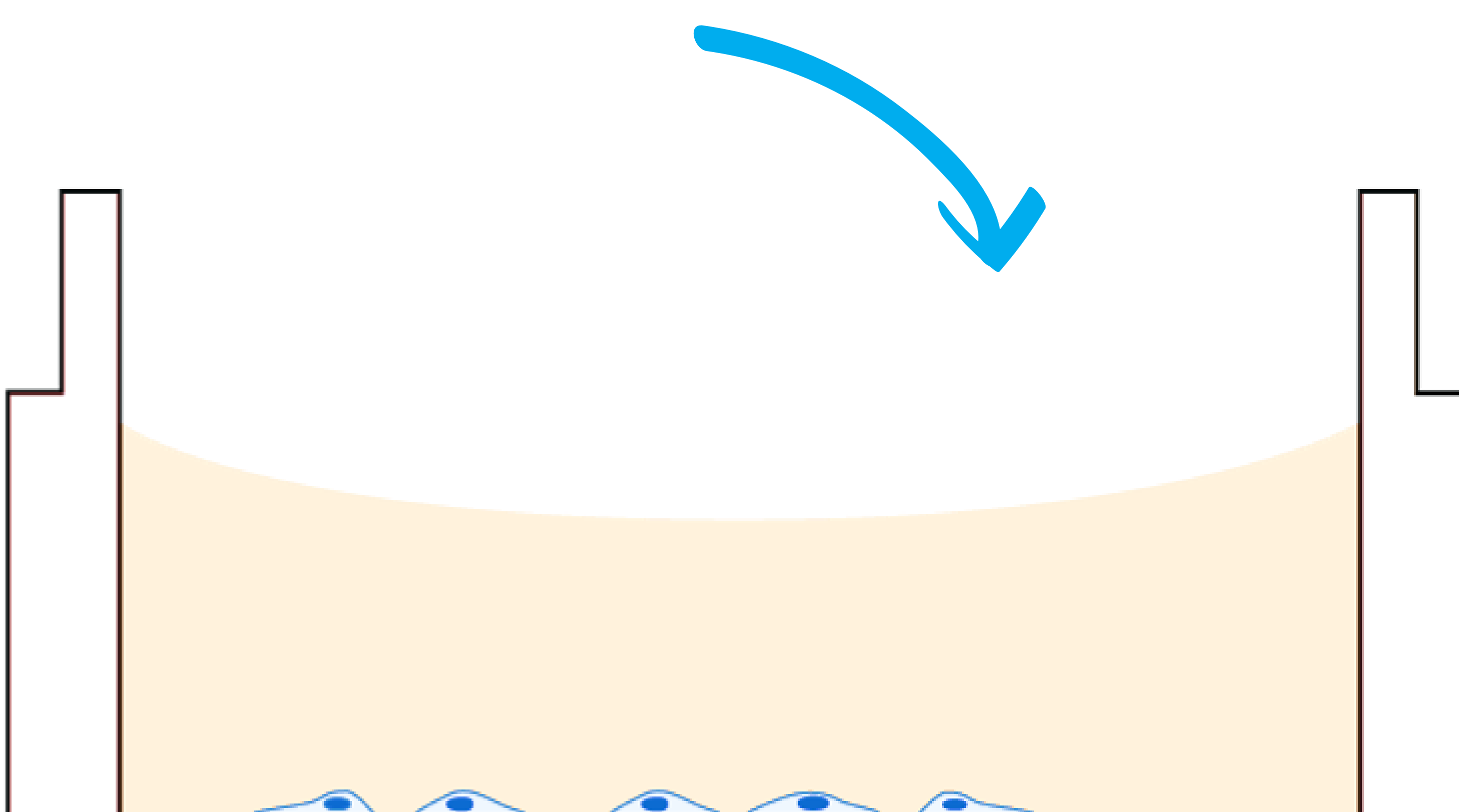
4

USE OPTIPREP

Optiprep is a chemical to help match the refractive index of your sample to the media and can help with image quality with light sheet imaging. We recommend adding 20% optiprep to your media.

Order from Stemcell technologies, cat #07820. Comes as a 60% solution diluted in water.

Add 20% Optiprep to Media



Questions? Reach out to us:

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