

Materials List for

# Optimizing Mouse Primary Lens Epithelial Cell Culture: A Comprehensive Guide to Trypsinization

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## Citation

Yu, Y., Zhang, J., Wu, H. Optimizing Mouse Primary Lens Epithelial Cell Culture: A Comprehensive Guide to Trypsinization. *J. Vis. Exp.* (208), e65912, doi:10.3791/65912 (2024).

## Date Published

June 21, 2024

## DOI

10.3791/65912

## URL

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## Materials

Name	Company	Catalog Number	Comments
0.05% Trypsin-EDTA	Thermo Fisher	#25300054	For LECs dissociation
Alexa Fluor 488 Secondary Antibody	Jackson ImmunoResearch	#715-545-150	For cell validation
Alexa Fluor 647 AffiniPure Goat Anti-Rabbit IgG (H+L)	Jackson ImmunoResearch	111-605-003	For cell validation
Antibody dilution buffer	Licor	#927-60001	For cell validation
Beaver safety knife	Beaver-Visitec International	#3782235	For lens dissection
Blocking buffer	Licor	#927-60001	For cell validation
Capsulorhexis forceps	Titan Medical Instruments	TMF-124	For lens capsule isolation
DMEM	Sigma Aldrich	D6429	For LECs culture medium
DMSO	Sigma Aldrich	#D2650	For making freezing medium
Dulbecco's Phosphate Buffered Saline	Thermo Fisher	#J67802	For lens dissection
Dumont tweezers	Roboz Surgical Instrument	RS-4976	For lens capsule isolation
EpiCGS-a (optional)	ScienCell	4182	For LECs culture medium
FBS	Sigma Aldrich	F2442	For LECs culture medium
Gentamicin (50 mg/mL)	Sigma-Aldrich	G1397	For LECs culture medium
Hoechst 33342 solution	Thermo Fisher	#62249	For cell validation
Micro-dissecting scissors	Roboz Surgical Instrument	RS-5983	For lens dissection
Micro-dissecting tweezers	Roboz Surgical Instrument	RS5137	For lens dissection
PROX1 antibody	Thermo Fisher	11067-2-AP	For cell validation
Vannas micro-dissecting spring scissors	Roboz Surgical Instrument	RS-5608	For lens capsule isolation
αA-crystallin antibody	Santa Cruz	sc-28306	For cell validation
γ-crystallin antibody	Santa Cruz	sc-365256	For cell validation