

Corneal and Limbal Alkali Injury Induction Using a Punch-Trephine Technique in a Mouse Model

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Materials

Name	Company	Catalog Number	Comments
Anti-K12 antibody	ABCAM	ab185627	
Anti-K13 antibody	ABCAM	ab92551	
Bovine serum albumin (BSA)	ThermoFisher Scientific	B14	
C57BL/6 mice	Dr Weissman Lab, Stanford University		
Curved forceps	Storz	E1885	
Disposable 90 degree bent needle			
Disposable biopsy punch	Med blades		
Donkey anti-rabbit IgG H&L	ABCAM	ab150073	
Ethanol	ThermoFisher Scientific	T038181000CS	
Ethiqx XR (Buprenorphine extended-release injectable suspension)	Fidelis Animal Health		
Heating pad for mouse			
Ketamine hydrochloride	Ambler	ANADA 200-055	
OCT	Tissue-Tek 4583		
Ophthalmic surgical scissors			
pH Indicator Sticks	Whatman		
Phosphate buffered saline (PBS)	ThermoFisher Scientific	AM9624	
Prolong gold antifade reagent with DAPI	Invitrogen	P36935	
Slit-lamp microscope	NIDEK	SL-450	
Sodium fluorescein AK-fluor 10%	Dailymed	NDC17478-253-10	
Sterile irrigation solution (BSS)	Alcon	9017036-0119	
Sterile syringe, 1 and 5 ml			
Straight forceps	Katena K5	4550- Storz E1684	
Surgical eye spears	American White 17240 Cross		
Surgical microscope	Zeiss S5 microscope		
Tetracaine ophthalmic drop	Alcon	NDC0065-0741-14	

Timer			
Triple antibiotic ophthalmic ointment	Bausch and Lomb		
TritonX -100	Fisher Scientific	50-295-34	
Two-speed rotary tool	200-1/15 Two Speed Rotary Toolkit		
Xylazine	AnaSed	NADA#139-236	