

Materials List for:

Simultaneous *ex vivo* Functional Testing of Two Retinas by *in vivo* Electroretinogram System

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URL: <https://www.jove.com/video/52855>

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Materials

Name	Company	Catalog Number	Comments
<i>In vivo</i> ERG system	OcuScience	HMsERG	www.ocuscience.us/id77.html
<i>In vivo</i> ERG system	LKC Technologies	UTAS-E 3000	www.lkc.com/products/UTAS/bigshot.html
<i>Ex vivo</i> adapter	OcuScience	Ex VIVO ERG adapter	www.ocuscience.us/id107.html
Dissection microscope	North Central Instruments	Leica M80	May use any brand
IR emitter	Opto Diode Corp.	OD-50L	www.optodiode.com
Prowler Night Vision Scopes	B.E. Meyers Electro Optics	D4300-I	Military grade product.
Red filter	Rosco Laboratories	Roscolux #27 Medium Red	May be used instead of IR system
Red head light	OcuScience	ERGX011	www.ocuscience.us/catalog/i29.html
Microscissors	WPI, Inc.	500086	www.wpiinc.com/
Dumont tweezers #5	WPI, Inc.	14101	
Razor blades	Electron Microscopy Sciences	72000	www.emsdiasum.com
Scale	Metler Toledo	AB54-S/FACT	May use any brand
pH meter and electrode	Beckman Coulter	pHI 350	May use any brand
NaCl	Sigma-Aldrich	S7653	May use any brand
KCl	Sigma-Aldrich	60129	May use any brand
MgCl ₂	Sigma-Aldrich	63020	1.0 M solution
CaCl ₂	Sigma-Aldrich	21114	1.0 M solution
EDTA	Sigma-Aldrich	431788	May use any brand
HEPES	Sigma-Aldrich	H3375	May use any brand
Sodium Bicarbonate	Sigma-Aldrich	S6297	May use any brand
Ames medium	Sigma-Aldrich	A1420	May use any brand
BaCl ₂	Sigma-Aldrich	B0750	May use any brand
DL-AP4	Tocris Bioscience	101	May use any brand
Succinic acid disodium salt	Sigma-Aldrich	224731	May use any brand
L-Glutamic acid	Sigma-Aldrich	G2834	May use any brand
D-(+)-Glucose	Sigma-Aldrich	G7528	May use any brand
Leibovitz culture medium L-15	Sigma-Aldrich	L4386	May use any brand
MEM vitamins	Sigma-Aldrich	M6895	
MEM amino acids	Sigma-Aldrich	M5550	
Carbogen	Airgas	UN3156	5% CO ₂