

Materials List for

Subretinal Implantation of RPE on a Carrier in Minipigs: Guidelines for Preoperative Preparations, Surgical Techniques, and Postoperative Care

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Materials

Name	Company	Catalog Number	Comments
Technical equipment			
Wato EX-65 with a Mindray iMEC10	Mindray, Shenzhen, China	Wato Ex-65	anesthesia machine
R-Evolution CR	Optikon, Rome, Italy	R-Evolution CR	phacoemulsifier/vitreotome
Green laser Merilas 532α	Meridian, Thun, Switzerland	Merilas 532α	ophthalmic green laser
Microscope Hi-R NEO 900A	Haag-Streit Surgical, Wedel, Germany)	Hi-R NEO 900A	ophthalmic surgery microscope
Camera Sony PMW-10MD	Sony, Tokyo, Japan	PMW-10MD	full HD medical 2-piece
Non-contact vitreoretinal surgical system MERLIN BIOM	Volk, Mentor, OH, USA	MERLIN BIOM	BIOM
Steam sterilizer	Tuttnauer Europe B.V., Breda, NL	3870 HSG	sterilizer
iCam100	Optovue, Fremont, CA, USA	iCAM100	funduscamera
iVue OCT100-2	Optovue, Fremont, CA, USA	iVue OCT100-2	OCT
Microsurgical instruments and devices			
Cook Eye Speculum	Katena, New Jersey, US	K1-5403	15mm blades
Ophthalmology surgical drape	Hylyard, Alpharetta, Georgie, USA	79304	132 x 142cm
Disposable Two step vitrectomy system. (23 gauge/ 0.6 mm)	DORC, Zuidland, Netherlands	1272.ED06	

Infusion line for 23G / 0.6 mm infusion cannula	DORC, Zuidland, Netherlands	1279.P	
knife 2.75mm, IQ Geometry Tm Slit Knife Angled, Bevel Up	Surgical Specialties Corporation, Reading, USA	72-2761G	
Extendible 41G subretinal injection needle. (23 gauge / 0.6 mm)	DORC, Zuidland, Netherlands	1270.EXT	
Omnifix 3ml Luer Lock Solo siringe	BBraun, Melsungen, Germany	4617022V	3ml
1ml soft-inject Tuberculin	Henke Sass Wolf, Tuttlingen, Germany	5010.200V0	1ml
8-0 Coated Vicryl	Ethicon, Puerto Rico, USA	J409G	
Purified Silicone Oil (in syringe) 10 ml	(FCI, Paris, France)	S5.7170	1000cSt
Pinnacle 360 Morris Vertical Scissors 23Ga	Synergetics, O'Fallon, USA	10.24.23PIN	23Ga
Revolution DSP 23Ga ILM forceps	Alcon, Geneva, Switzerland	706.44	Griesharber revolution
23ga Straight Laser Probe	Synergetics, O'Fallon, USA	55.21.23	
FCI Protect 2.0%	FCI Ophthalmics, Paris, France	S5.9100	viscoelastic
DK Westcott style Stitch Scissors, Curve	Duckworth & Kent, Hertfordshire, England	1-501	Curve
Pierse Notched Forceps, 0,3mm Straigh	Duckworth & Kent, Hertfordshire, England	2-100-1E	0,3mm straigh
DK Harms-Tubingen Straight Tying Forceps	Duckworth & Kent, Hertfordshire, England	2-504E	6mm
DK Needle Holder, Straigh	Duckworth & Kent, Hertfordshire, England	3-201	9mm straigh
Medications and solutions			
Unitropic 1% gtt.	UNIMED PHARMA spol. s r.o., Bratislava, Slovak republic	tropicamidum 10 mg/ml	eye drops
Diprophos	Merck Sharp & Dohme B.V., Haarlem, Netherlands	betamethasonum 7 mg/ml	1ml
Alcon BSS Irrigation Solution	Alcon, Geneva, Switzerland	balance salt solution (BSS)	500ml
Betaisodona	Mundipharma, Cambridge, United Kingdom	povidon-Iodine 1g/10ml	30ml
Depo-medrol 120mg	Pfizer, New Yourk, USA	methylprednisolon	5ml/200mg
Shotapen	Virbac Carros Cedex, France	benzylpenicillin, dihydrostreptomycin	250ml
Flunixin a.u.v.	Norbrook, Newry, Northern Ireland	flunixinum 50,0 mg	250ml
Tramal 100MG/2ML	Stada Arzneimittel AG, Bad Vilbel, Deutschland	tramadol	2ml
Zoletil 100	Virbac Carros Cedex, France	tiletamine, zolazepam	100mg
Narkeran 10	Vetoquinol, Magny-Vernois, France	ketamin	2ml
Rometar 20mg/ml	Spofa pharmaceutica, Prague, Czech republic	xylazinum	20mg
Braunol 75mg/g	B.Braun medical, Prague, Czech republic	povidone iodine	75mg/g
Propofol 1% MCT/LCT	Fresenius Kabi, Bad Homburg, Deutschland	propofol	10mg/1ml
Isoflurane 100% Inhalation vapour, liquid	Piramal Critical Care Limited, West Drayton, United Kingdom	isoflurane	100%
Benoxi gtt. 4mg/1ml	Unimed pharma, Bratislava, Slovakia	oxybuprakaine	10ml
Neosynephrin POS 10% gtt.	Ursapharm, Saarbrücken, Deutschland	fenylefrin chloride	10ml
Ophthalmo-framykoin 1X5GM	Zentiva a.s., Prague, Czech republic	bacitracin zinc/hydrocortisone acetate/hydrocortisoneacetate/ neomycin sulfate	5mg
Floxal ung.	Dr. Gerhard Mann Chem.-Pharm. Fabrik, Berlin, Germany	ofloxacin	0.30%

Eficur inj.	Hipra, Amer, Spain	ceftiofurum hydrochloridum	50mg / 1ml
Draxxin	Zoetis Inc., New Jersey, USA	tulathromycinum	100mg / 1ml
Tramal	Stada Arzneimittel AG, Bad Vilbel, Deutschland	tramadoli hydrochloridum	100mg / 2ml
Xylapan	Vetoquinol, Magny-Vernois, France	xylazinum	0.4 mg/kg
Proparacaine hydrochlorid ophthalmic solution 0,5%	Bausch&Lomb Incorporated Tampa, FL, USA	Proparacaine hydrochlorid	0.50%
Prograf	Astellas Pharma, Deerfield, Illinois, USA	Tacrolimus powder	1mg
Cell carrier, cultivated cells cultures, and implantation injector			
Falcon Cell Culture Inserts	Corning Inc., Kennebunk, ME, USA	353103	
TrypLE Express Enzyme (1X)	Thermo Fisher Scientific, MA, USA	12604021	
DMEM/F-12	Thermo Fisher Scientific, MA, USA	11320033	
Biolaminin 521 LN (LN521)	BioLamina, Sundbyberg, Sweden	LN521-02	
GlutaMAX Supplement	Thermo Fisher Scientific, MA, USA	35050061	
2-Mercaptoethanol	Thermo Fisher Scientific, MA, USA	J66742.0B	
Penicillin-Streptomycin	Sigma-Aldrich, San Luis, Mi, USA	P4333	
CRALBP	Novus Biologicals, Abingdon, UK	NB100-74392	
Alexa Fluor 488	Thermo Fisher Scientific, Germany	21202	