

Materials List for:

# An In Vivo Estrogen Deficiency Mouse Model for Screening Exogenous Estrogen Treatments of Cardiovascular Dysfunction After Menopause

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## Materials

Name	Company	Catalog Number	Comments
17β-estradiol,>98%	Sigma-Aldrich	E8875-250MG	Estrogen
Disposable syringes (with 25G needles)	Hunan Luzhou Huikang Development Co., Ltd	0.5*19TWLB	Cardiac bleeding
High-cholesterol mouse diet	Huafukang Bio-Technology	N/A	1.25% cholesterol, 0% cholate
High-Resolution In Vivo Micro-Imaging System	VisualSonics	Vevo®770	Measurements of intima-media thickness and cardiac dysfunction
2-Methyl-2-butanol	Sigma-Aldrich	152463-250ML	Preparation of avertin
Micro Dissecting forceps, Curved 8mm	Kanghua Medical Equipment Co., Ltd		Surgical tools
Micro Dissecting forceps, Straight 8mm	Kanghua Medical Equipment Co., Ltd		Surgical tools
Micro Dissecting Scissors, Curved/Sharp 8mm	Kanghua Medical Equipment Co., Ltd		Surgical tools
Micro Dissecting Scissors, Straight/Sharp 8mm	Kanghua Medical Equipment Co., Ltd		Surgical tools
Monofilament suture 4-0 1/2 5*12 19mm	Shanghai Pudong Jinhuan Medical Supplies Co., Ltd	R413	Suture and ligation of the tissues
Nut cream (Nutella)	Ferrero	N/A	Medium for peroral 17β-estradiol or PPD
OptiVisor optical glass binocular magnifier	Dohegan Optical Company Inc.	N/A	Assistant of identifying the tissues during ovariectomy
Phosphate-buffered saline at pH 7.4	SIGMA	P3813	Preparing 1 L saline
Pro MultiLabel Microplate Reader	Tecan	Infinite M1000	Plasma TC and TG determination
Pseudoprotodioscin	Shanghai Winherb Medical S & T Development	W-0427	CAS registry no. 102115-79-7
Rimadyl, 50 mg/mL	Pfizer Pharma GmbH	462986	Postoperative analgesia after ovariectomy
Sesame oil	Sigma-Aldrich	S3547-1L	Dissolving the 17β-estradiol or PPD
Solcoseryl Eye-Gel	Menarini, Solco Basle Ltd.		Eye protection during anesthesia
Stereo microscope	MCALON	MCL-6STV	Image of the intimal region of aorta
Table model high speed centrifuge	SIGMA	1-14K	Preparation of plasma
Scissors, slight Curve (14cm)	Kanghua Medical Equipment Co., Ltd		Surgical tools
Scissors, straight Flat (14cm)	Kanghua Medical Equipment Co., Ltd		Surgical tools
Tissue forceps, serrated, slight Curve (14cm)	Kanghua Medical Equipment Co., Ltd		Surgical tools

Tissue forceps, serrated, straight Flat (14cm)	Kanghua Medical Equipment Co., Ltd		Surgical tools
Tribromoethanol	Sigma-Aldrich	T48402-5G	Preparation of avertin
Triglycerides (TG) assay kit	Institute of Nanjing Jiancheng Biology Engineering	A110-1	Plasma TG determination
Total cholesterols (TC) assay kit	Institute of Nanjing Jiancheng Biology Engineering	A111-1	Plasma TC determination