

Materials List for:

# Tissue-Engineered Graft for Circumferential Esophageal Reconstruction in Rats

In Gul Kim<sup>1</sup>, Yanru Wu<sup>2</sup>, Su A. Park<sup>3</sup>, Hana Cho<sup>1</sup>, Jung-Woog Shin<sup>2</sup>, Eun-Jae Chung<sup>1</sup>

<sup>1</sup>Department of Otorhinolaryngology-Head and Neck Surgery, Seoul National University, College of Medicine

<sup>2</sup>Department of Biomedical Engineering, Inje University, Gimhae

<sup>3</sup>Department of Nature-Inspired Nanoconvergence Systems, Korea Institute of Machinery and Materials

Correspondence to: Eun-Jae Chung at [voicechung@snu.ac.kr](mailto:voicechung@snu.ac.kr)

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## Materials

Name	Company	Catalog Number	Comments
Metabolic cage	TEUNGDO BIO & PLANT	JD-C-66	
Zoletil (50 mg/g dose)	Virbac	1000000188	
0.25% Trypsin-EDTA	Gibco	25200-056	
1 mL Syringe	BD	309659	
2% xylazine hydrochloride (Rumpun)	Byely	Q-0615-035	
4% paraformaldehyde	BIOSOLUTION	BP031	
4-0 Vicryl	ETHICON	W9443	
9-0 Vicryl	ETHICON	W2813	
Antibiotic gentamicin (Septopal).	Septopal	0409-1207-03	
Bovine Serum Albumin (BSA)	Sigma	5470	
Citrate Buffer, pH6.0, 10X	Sigma	C9999	
DAB PEROXIDASE SUBSTRATE KIT	VECTOR	SK4100	
Desmin	Santa Cruz	sc-23879	
Elastic stain kit	ScyTeK	ETS-1	
Ethanol	Merck	100983	
Ethanol	Merck	64-17-5	
Fetal Bovine Serun (FBS)	Gibco	16000-044	
Glutaraldehyde	Sigma	354400	
Goat anti-Mouse IgG (H+L) Secondary Antibody	ThermoFisher	A-11001	
Heparin cap	Hyupsung Medical	HS-T-05	
hMSC (STEMPRO) / growth medium (MesenPRO RSTM)	Invitrogen	R7788-110	
Horseradish peroxidase-conjugated kit (Vectastain)	VECTOR	PK7800	
Hydrogen peroxide	JUNSEI	7722-84-1	
Keratin13	Novus	NBP1-97797	
LIVE/DEAD Viability Assay Kit	Molecular Probes	L3224	
Matrigel	Corning	354262	
N,N-dimethylformamide (DMF)	Sigma	227056	
Nonadherent 24-well tissue culture plates.	Corning	3738	

OsO <sub>4</sub>	Sigma	O5500	
Petri dish	Eppendorf	3072115	
Phosphate-buffered saline (PBS)	Gibco	10010-023	
Phosphate-buffered saline (PBS), 10X	BIOSOLUTION	BP007a	
Polycaprolactone (PCL) polymer	Sigma	440744	
Polyurethane (PU+A2:A24) polymer	Lubrizol	2363-80AE	
Power Supply	NanoNC	HV100	
ProLong Gold antifade reagent with DAPI	Invitrogen	P36931	
Rumpun	Bayer	Q-0615-035	
Silicone T-tube	Sewoon Medical	2206-005	
Terramycin Eye Ointment	Pfizer Pharmaceutical Korea	W01890011	
Tiletamine/Zolazepam (Zoletil)	Virbac Laboratories	Q-0042-058	
Trichrome stain kit	ScyTeK	TRM-1	
von Willebrand Factor (vWF)	Santa Cruz	sc 14014	