

Materials List for:

Transplantation of Adipose Tissue-Derived Stem Cell Sheet to Reduce Leakage After Partial Colectomy in A Rat Model

Panithi Sukho^{1,2,3}, Geesien S.A. Boersema⁴, Nicole Kops⁵, Johan F. Lange⁴, Jolle Kirpensteijn^{1,6}, Jan Willem Hesselink¹, Yvonne M. Bastiaansen-Jenniskens⁵, Femke Verseijden^{1,5}

¹Department of Clinical Sciences of Companion Animals, Faculty of Veterinary Medicine, Utrecht University

²Department of Otorhinolaryngology, Erasmus MC University Medical Center

³Department of Clinical Sciences and Public Health, Faculty of Veterinary Science, Mahidol University

⁴Department of Surgery, Erasmus MC University Medical Center

⁵Department of Orthopaedics, Erasmus MC University Medical Center

⁶Hill's Pet Nutrition Inc.

Correspondence to: Femke Verseijden at f.verseijden@uu.nl

URL: <https://www.jove.com/video/57213>

DOI: [doi:10.3791/57213](https://doi.org/10.3791/57213)

Materials

Name	Company	Catalog Number	Comments
LG DMEM	Gibco, Life technologies	22320022	ASC isolation and culture
Collagenase type I	Gibco, Life technologies	17100-01	ASC Isolation
Bovine Serum Albumin	Sigma-Aldrich	A9418	ASC Isolation
Fetal bovine serum	Gibco, Life technologies	10270-106	FBS, ASC isolation and culture
3% acetic acid with methylene blue	Stemcell Technologies	7060	ASC Isolation
Gentamicin	Gibco, Life technologies	15750-037	ASC isolation and culture
Amphotericin B	Gibco, Life technologies	15290-018	ASC isolation and culture
Shaker (Gallenkamp Environmental Shaker Model 10X 400)	Akribis Scientific	F240	ASC Isolation
Centrifuge	Hettichlab	Rotina380	ASC isolation and culture
Phosphate buffer saline	Gibco, Life technologies	14190-094	PBS, ASC isolation and culture
Ascorbic acid-2-phosphate	Sigma-Aldrich	A8960	ASC isolation and culture
Human recombinant fibroblast growth factor 2	AbD Serotec	AF-100-15	FGF2, ASC isolation and culture
Trypsin EDTA	Gibco, Life technologies	25200-056	ASC culture
Dimethyl sulfoxide	Sigma-Aldrich	D2650-5x	DMSO, ASC freezing
Thermo-responsive culture dishes	Nunc Thermo scientific	174904	ASC sheet preparation
Non-absorbable braided silk 4/0	B Braun	21151042	surgery
Non-absorbable monofilament polyamide 8/0	B Braun	G1118170	surgery
Absorbable braided polyglycolic acid 5/0	B Braun	C1048207	surgery