

Materials List for:

Ferromagnetic Bare Metal Stent for Endothelial Cell Capture and Retention

Susheil Uthamaraj¹, Brandon J. Tefft², Ota Hlinomaz³, Gurpreet S. Sandhu², Dan Dragomir-Daescu^{1,4}

¹Division of Engineering, Mayo Clinic

²Division of Cardiovascular Diseases, Mayo Clinic

³Department of Cardioangiography, ICRC, St. Anne's University Hospital

⁴Mayo Clinic College of Medicine

Correspondence to: Dan Dragomir-Daescu at dragomirdaescu.dan@mayo.edu

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Materials

Name	Company	Catalog Number	Comments
2205 Stainless steel	Carpenter Technology Corporation		Round bar stock material
Abaqus	Dassault systems		Software
Atropine			Prescription drug.
Clopidogrel			Commercial name: Plavix. Prescription drug.
CM-Dil	Life Technologies	V-22888	Molecular Probes, Eugene, OR
Endothelial growth medium-2	Lonza	CC-3162	
Hand Held Crimping tool	Blockwise engineering	M1-RMC	
Hydrochloric acid (HCl)	Sigma Aldrich	MFCD00011324	CAUTION: wear protective equipment and handle under fume hood
Isoflurane anesthesia	Piramal Critical Care, Inc.		
Ethyl alcohol	Sigma Aldrich	MFCD00003568	
NdFeB magnet 2" Dia x 1" thick	Amazing magnets	D1000P	Axially magnetized disc magnet with poles on flat faces
Over-The-Wire trifold balloon			Any commercially available OTW trifold balloon can be used
Phosphate buffered saline	Life Technologies	10010-023	Commonly known as PBS
Sodium Bicarbonate (NaHCO ₃)	Sigma Aldrich	MFCD00003528	
Sodium pentobarbital	Zoetis		Commercial Name: Sleepaway (26%), FatalPlus, Beuthanasi. Controlled substance to be ordered only by licensed veterinarian
SolidWorks	Dassault systems		Software
SpinTJ-020 micro sensor	MicroMagnetcs Sensible Solutions		Long probe STJ-020 microsensor
SPION	Mayo Clinic		Nanoparticles synthesized internally (Ref: Lee, S. J. et al. Nanoparticles of magnetic ferric oxides encapsulated with poly(D,L lactide-co-glycolide) and their applications to magnetic resonance imaging contrast agent. J Magn Magn Mater 272, 2432-2433, doi:DOI 10.1016/j.jmmm.2003.12.416 (2004))
Telazol	Zoetis		Controlled substance to be ordered only by licensed veterinarian
Trypsin EDTA	Life Technologies	25200-056	Gibco, Grand Island, NY

Xylazine	Bayer Animal Health		Commercial name: Rompun. Controlled sunstance to be ordered only by a licensed veterrarian
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