

Materials List for:

Gene Transfection toward Spheroid Cells on Micropatterned Culture Plates for Genetically-modified Cell Transplantation

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Materials

Name	Company	Catalog Number	Comments
Pen-Strep-Glut	GIBCO		
Dexamethasone	Wako Pure Chemical Industries	041-18861	
Nicotinamide	Wako Pure Chemical Industries	141-01202	
Hank's buffered salt and L-ascorbic acid 2-phosphate (Asc-2P)	Sigma-Aldrich	A8960	
Human epidermal growth factor (hEGF)	Toyobo	PT10015	
Cell-able multi-well plates	Toyo Gosei	PP-12	
Thermosensitive cell culture plates (Upcell ¹)	CellSeed Inc		The micropatterned architecture is constructed on the thermosensitive plates (custom-built by Toyo Gosei)
Lipid-based transfection reagent (FuGENE HD)	Promega	E2311	
Renilla Luciferase Assay System	Promega	E2810	
pGL4 Luciferase Reporter Vector	Promega	E6651	
pDNA expressing Gaussia luciferase	New England BioLabs	N8082S	
Mouse erthropoietin-expressing vector	Origene	MC208445	
pCAG-GS			Kindly provided by Laboratory for Pluripotent Cell Studies, Center for Developmental Biology, RIKEN
<i>Escherichia coli</i> DH5α competent cells	Takara	9057	
Endotoxin-free plasmid DNA purification system	Nippon Genetics	NucleoBond Xtra EF	
Collagenase	Wako Pure Chemical Industries	639-00951	
Trypsin inhibitor	GIBCO	R-007-100	
Luminometer	Promega	GloMax™ 96 Microplate Luminometer	
IVIS Imaging System	Xenogen Corp.	Xenogen IVIS Spectrum in vivo imaging system	
Blood sample analyzer	Sysmex	pocH-100i Automated Hematology Analyzer	