

Materials List for:

Recombinant Collagen I Peptide Microcarriers for Cell Expansion and Their Potential Use As Cell Delivery System in a Bioreactor Model

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Materials

Name	Company	Catalog Number	Comments
3-(4,5-Dimethylthiazol-2-yl)-2,5-diphenyltetrazoliumbromide (MTT)	Serva Electrophoresis GmbH	20395.01	
4',6-Diamidino-2-phenylindoldihydrochloride (DAPI)	Sigma-Aldrich	D9542	
Acetic acid 100%	Sigma-Aldrich	533,001	
Analytical balance Kern EG 2200-2NM	Kern & Sohn GmbH		
Ascorbate-2-phosphate	Sigma-Aldrich	A8960	
Bioreactor	Chair of Tissue Engineering and Regenerative Medicine, Wuerzburg, Germany		
Bright field microscope Axiovert 40C	Carl Zeiss AG		
Cellnest	Fujifilm		
Centrifuge tubes (15 mL, 50 mL)	Greiner Bio-One		
Collagen R solution 0,4%	Serva Electrophoresis GmbH	47254.01	
DMEM-F12	Gibco	11320-033	
Dulbecco's Phosphate Buffered Saline	Sigma-Aldrich	D8537	Modified, without calcium chloride and magnesium chloride
Eosin 1%	Morphisto	10177.01000	
Ethanol 96%	Carl Roth GmbH	T171.4	Denatured
Fetal calf serum (FCS)	Bio&SELL	FCS.ADD.0500	not heat-inactivated
Fluorescence microscope BZ-9000	Keyence		
Haematoxylin	Morphisto	10231.01000	
Hexamethyldisilazane	Sigma-Aldrich	440191	Reagent grade, ≥99%
Incubator for bioreactor	Chair of Tissue Engineering and Regenerative Medicine, Wuerzburg, Germany		
Live/Dead Cell Double Staining Kit	Fluka	04511KT-F	
Magnetic stirrer plate	2Mag	80002	
Medium 199	Sigma-Aldrich	M0650	10X
Microplate reader Tecan Infinite M200	Tecan		
Needle 21G 16mm	VWR	613-5389	
Papain from papaya latex	Sigma-Aldrich	P4762	lyophilized powder, ≥ 10 units/mg protein

Paraffin	Carl Roth GmbH	6642.6	
Penicillin/Streptomycin	Sigma-Aldrich	P4333	
Peristaltic pump	Ismatec		
Quanti-iT PicoGreen dsDNA assay kit	Thermo Fischer Scientific	P7589	
Histofix 4%	Carl Roth GmbH	P087	
Scanning Electron Microscope Supra 25	Carl Zeiss AG		
Sodium hydroxide solution 1.0 N	Sigma-Aldrich	S2770	
Spinner flasks (25 mL)	Wheaton	356879	
Syringe 1 mL	VWR	720-2561	
Tissue culture flasks (25 cm ² , 75 cm ² , 150 cm ²)	TPP Techno Plastik Products AG		
Trypan blue 0.4%	Sigma-Aldrich	T8154	
VascuLife VEGF-Mv	Lifeline cell technology	LL-0005	