

Injection of Porcine Adipose Tissue-Derived Stroma Cells via Waterjet Technology

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Materials

Name	Company	Catalog Number	Comments
50 mL centrifuge tube	Greiner BioOne	227261	
1 mL BD Luer-Lok™ Syringe	BD Plastik Inc	n.a.	
100 µm cell sieve	Greiner BioOne	542000	
15 mL centrifuge tube	Greiner BioOne	188271	
75 cm ² tissue culture flask	Corning Incorporated	353136	
AFM head	(CellHesion 200) JPK	JPK00518	
AFM processing software	Bruker	JPK00518	
AFM software	Bruker	JPK00518	
AFM system Cell Hesion 200	Bruker	JPK00518	
All-In-One-AI cantilever	Budget Sensors	AIO-10	tip A, Conatct Mode, Shape: Beam Force Constant: 0.2 N/m (0.04 - 0.7 N/m) Resonance Frequency: 15 kHz (10 - 20 kHz) Length: 500 µm (490 - 510 µm) Width: 30 µm (35 - 45 µm) Thickness: 2.7 µm (1.7 - 3.7 µm)
Amphotericin B solution	Sigma	A2942	250 µg/ml
Atomic Force Microscope (AFM)	CellHesion 200, JPK Instruments, Berlin, Germany	JPK00518	
BD Microlance 3 18G	BD	304622	
bovine serum albumin	Gibco	A10008-01	
Cantilever	All-In-One-AleT1, Budget Sensors, Sofia, Bulgaria	AIO-TL-10	tip A, k ¼ 0.2 N/m
C-chip disposable hemocytometer	NanoEnTek	631-1098	
centrifuge: Rotina 420R	Hettich Zentrifugen		
Collagenase, Type I, powder	Gibco	17100-017	
Dulbecco's Modified Eagle's Medium - low glucose	Sigma	D5546	

Feather disposable scalpel (No. 10)	Feather	02.001.30.010	
fetal bovine serum (FBS)	Sigma	F7524	
HEPES sodium salt solution (1 M)	Sigma	H3662	
Inverted phase contrast microscope (Integrated with AFM)	AxioObserver D1, Carl Zeiss Microscopy, Jena, Germany	L201306_03	
laboratory bags	Brand	759705	
Leibovitz's L-15 medium without L-glutamine	Merck	F1315	
Leibovitz's L-15 medium without L-glutamine	(Merck KGaA, Darmstadt, Germany)	F1315	
L-glutamine	Lonza	BE 17-605C1	200 mM
LIVE/DEAD™ Viability/Cytotoxicity Kit	Invitrogen by Thermo Fisher Scientific	L3224	Calcein AM and EthD-1 are used from this kit.
Microscope software: Zen 2.6	Zeiss		
Microscope: AxioVertA.1	Zeiss		
Nelaton-Catheter female	Bicakcilar	19512051	
Penicillin-Streptomycin	Gibco	15140-122	10000 U/ml Penicillin 10000 µg/ml Streptomycin
Petri dish heater associated with AFM	Bruker	T-05-0117	
Petri dish heater associated with AFM	JPK Instruments AG, Berlin, Germany	T-05-0117	
Phosphate buffered saline (PBS)	Gibco	10010-015	
Statistical Software: SPSS Statistics 22	IBM		
Sterile Petri dish - CellStar	Greiner BioOne	664160	
Tissue culture dishes	TPP AG	TPP93040	
Tissue culture dishes	TPP Techno Plastic Products AG, Trasadingen, Switzerland	TPP93040	
Trypan Blue 0.4% 0.85% NaCl	Lonza	17-942E	
Trypsin-EDTA solution	Sigma	T3924	
Waterjet: ERBEJET2 device	Erbe Elektromedizin GmbH		
Williams Cystoscopic Injection Needle	Cook Medical	G14220	23G, 5.0 Fr, 35 cm