

Materials List for:

An Enzymatic Method to Rescue Mesenchymal Stem Cells from Clotted Bone Marrow Samples

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Materials

Name	Company	Catalog Number	Comments
Basal Medium Components			
PenStrep 100X	Gibco	15140122	
Human FGF-basic	Peprotech	100-18B	
MEM Alpha w/ Nucleoside, w/ stable Glutamine	Amimed	1-23S50-I	
FBS Heat Inactivated	Amimed	2-01F36-I	
Amphotericin B	Applichem	A1907	
Adipogenic Medium Components			
DMEM-HAM F12 + GlutaMAX	Amimed	1-26F09-I	
Insulin	Sigma	I5500	
Rabbit serum	Gibco	16120099	
Dexamethasone	Applichem	D4902	
3-Isobutyl-1-methylxanthine	Sigma	I5879	
Biotin	Sigma	B4639	
Rosiglitazone	Sigma	R2408	
Pantothenate	Sigma	P5155	
Oil Red-O	Sigma	O0625	
Osteogenic Medium Components			
L-ascorbic acid 2-phosphate	Sigma	A8960	
β-glycerophosphate	Sigma	G9422	
Silver nitrate (AgNO ₃)	Sigma	S6506	
Chondrogenic Medium Components			
Biopad - sponge shaped medical device	Euroresearch		
L-proline	Sigma	P5607	
Insulin-Transferrin-Selenium X	Gibco	51500056	
Human transforming growth factor-β1	Peprotech	100-21	
Alcian Blue 8GX	Sigma	A3157	
Nuclear fast red	Sigma	N8002	
Generic			

Tri-Sodium citrate dihydrate	Applichem	A3901	
PBS	Applichem	964.9100	
Urokinase	Medac	1976826	
0.5% Trypsin-EDTA	Gibco	15400054	
Giemsa stain	Applichem	A0885	
Formaldehyde	Applichem	A0877	
Sulfuric acid (H ₂ SO ₄)	Applichem	A0655	
Dimethyl sulfoxide (DMSO)	Applichem	A1584	
Magnesium chloride (MgCl ₂)	Applichem	A3618	
Guanidine hydrochloride	Applichem	A1499	
Consumables			
50 ml reaction tube	Axygen	SCT-50ML-25-S	
10 ml syringe	Braun	4606108V	
Sterican needle (22G)	Braun	4657624	
1.7 ml Microtubes	Brunschwig	MCT-175-C	
100 µm cell strainer	Falcon	6.05935	
sterile forceps	Bastos Viegas, SA	489-001	
sterile scalpel	Braun	5518059	
Primaria cell culture dish	Falcon	353803	
C-Chip Neubauer Improved	Bioswisstech	505050	
cell culture flask - Flask T300	TPP	90301	
Equipment			
Microbiological biosafety cabinet class II	Skon	82011500	
water bath	Memmert	1305.0377	
Stripettes Serological Pipette 5ml	Corning	4487-200ea	
microscope	Olympus	CKX41	
humidified incubator Heracells 240	Thermo scientific	51026331	
Heraeus Multifuge 1S-R	Thermo scientific	75004331	