

Materials List for:

Isolation of Mesenchymal Stem Cells from Human Alveolar Periosteum and Effects of Vitamin D on Osteogenic Activity of Periosteum-derived Cells

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Materials

Name	Company	Catalog Number	Comments
0.25% trypsin-EDTA	Gibco	25200-056	
2-phospho-L-ascorbic acidtrisodium salt	Sigma	49752	
35-mm culture dishes	Corning	430165	
3-isobutyl-1-methylxanthine	Sigma	I5879	
6 well plate	Corning	3516	
Alkaline phosphatase	ABI	Hs01029144_m1	
Alkaline Phosphatase Activity Colorimetric Assay Kit	BioVision	K412-500	
avian myeloblastosis virus reverse transcriptase	Roche	10109118001	
CD146	BD	561013	
CD19	BD	560994	
CD34	BD	560942	
CD44	BD	561858	
CD45	BD	561088	
CD73	BD	561014	
CD90	BD	561974	
Cell banker1	ZEAOAQ	11888	
core binding factor alpha-1	ABI	Hs00231692_m1	
dexamethasone	Sigma	D4902	
DPBS	Gibco	14190250	
FBS	Gibco	26140-079	
GAPDH	ABI	Hs99999905_m1	
HLA-DR	BD	562008	
indomethacin	Sigma	I7378	
insulin	<i>sigma</i>	91077C	
insulin–transferrin–selenium-A	Sigma	I1884	

MicroAmp Fast 96 well reaction plate(0.1ml)	Life	4346907	
MicroAmp optical adhesive film	Life	4311971	
Minimum Essential Medium 1X Alpha Modification	HyClone	SH30265.02	
Penicillin/Streptomycin	Gibco	15140-122	
Permeabilization buffer	eBioscience	00-8333-56	
Sodium pyruvate	Gibco	11360070	
STRO-1	BioLegend	340103	
SYBER Green PCR Master Mix	AppliedBiosystems	4309155	
TaqMan Master Mix	Life	4304437	
transforming growth factor- β	Sigma	T7039	
Trizol reagent (for RNA isolation)	Life	15596018	
β -glycerophosphate	Sigma	G9422	
collagen-1	Invitrogen	forward primer 5' CCTCAAGGGCTCCAACGAG-3' reverse primer 5'- TCAATCACTGTCTTGCCCCA-3'	
OCN	Invitrogen	forward primer 5'- GTGCAGCCTTTGTGTCCAAG-3' reverse primer 5'- GTCAGCCAACCTCGTCACAGT-3'	
BSP	Invitrogen	forward primer 5' AAAGTGAGAACGGGAACCT-3' reverse primer 5'- GATGCAAAGCCAGAATGGAT-3'	
Commercial ALP primers			
Commercial CBFA1 primers			