

Materials List for:

A Simplified and Efficient Method to Isolate Primary Human Keratinocytes from Adult Skin Tissue

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Materials

Name	Company	Catalog Number	Comments
Countess automated cell counter	Invitrogen Inc.	C10227	Automatic cell counting
CO2 Incubator	Thermo Scientific	51026333	For cell incubating
Sorvall ST 16R Centrifuge	Thermo Scientific	75004380	Cell centrifuge
Constant Temperature Shaker	Shanghai Boxun	150036	For water bath
Electronic Scale	Harbin Zhonghui	1171193	For tissue weighing
Cell Culture Dish	Eppendorf	30702115	For cell culture
50ml Centrifuge Tube	KIRGEN	171003	For cell centrifuge
Cell Strainer	Corning incorporated	431792	Cell filtration
Phosphate buffered solution	Solarbio Life Science	P1020-500	Washing solution
DMEM	Thermo Scientific	C11995500	Component of neutralization medium
Defined K-SFM	Life Technologies	10785-012	Epidermal cells culture medium
Penicillin Streptomycin	Thermo Scientific	15140-122	Antibiotics
Fetal Bovine Serum	Biological Industries	04-001-1AC5	Component of neutralization medium
0.05% Trypsin	Life Technologies	25300-062	For HKC dissociation
0.25% Trypsin	Beijing Solarbio Science & Technology	T1350-100	For HKC dissociation
Coating Matrix Kit	Life Technologies	R-011-K	For coating matrix
Dispase	Gibco	17105-041	For HKC isolation
Collagenase Type I	Life Technologies	17100-017	For HKC isolation
Deoxyribonuclease I	Sigma	9003-98-9	For HKC isolation
F12 Nutrient Mix, Hams	Life Technologies	31765035	Component of G-medium
B27 Supplement	Life Technologies	17504044	Growth factor in G-medium
FGF-2 Millipore	Merck Biosciences	341595	Growth factor in G-medium
Y-27632	Sigma-Aldrich	Y0503	ROCK inhibitor
Fungizone	Gibco	15290026	Preparation for G-medium
EGF Recombinant Human Protein	Gibco	PHG0311	Growth factor in G-medium
Cell Counting Kit-8	Thermo Scientific	NC9864731	cell proliferation and cytotoxicity assays
Mouse Anti-Human Cytokeratin5	Hewlett-Packard Development Company	MA-20142	For immunofluorescence staining to check differentiation marker of HKCs

Rabbit Anti-Human Loricrin	Covance	PRB-145p	For immunofluorescence staining to check differentiation marker of HKCs
Mouse anti-human Vimentin	Cell Signaling Technology	3390	For immunofluorescence staining of dermal fibroblasts
Integrin $\alpha 6$ (GOH3)	Santa Cruz	SC-19622	flow cytometry analysis of HKCs
Rat IgG2a FITC	Santa Cruz	SC-2831	negative control antibody of $\alpha 6$ -integrin in flow cytometry analysis