

Materials List for:

Three-dimensional Inflammatory Human Tissue Equivalents of Gingiva

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Materials

Name	Company	Catalog Number	Comments
Collagen type I-A	Nitta Gelatin Inc		For making dermis of GTE
MEM-alpha	Thermo Fisher Scientific	11900073	Cell culture medium
Cell Culture Insert (for 24-well plate), pore size 3.0 μm	Corning, Inc.	353096	For tissue culture
GlutaMAX	Thermo Fisher Scientific	35050061	Cell culture reagent
DMEM	Thermo Fisher Scientific	31600034	Cell culture medium
KnockOut Serum Replacement	Thermo Fisher Scientific	10828028	Cell culture reagent
Tissue puncher	Shibata system service co., LTD	SP-703	For punching holes in GTE
RPMI 1640	Thermo Fisher Scientific	31800022	Cell culture medium
BSA	Sigma-Aldrich	A3294	For immunostaining
Hoechst 33342 (NucBlue Live Cell stain)	Thermo Fisher Scientific	R37605	For labeling nuclei
Fluorescence mount medium	Dako		For mounting samples after immunostaining
Anti-Cytokeratin 8+18 antibody [5D3]	abcam	ab17139	For identifying epithelium
Scanning electron microscope	Hitachi, Ltd.	HITACHI S-4000	For observing samples' surface topography and composition
Confocal laser scanning microscopy	LSM 700; Carl Zeiss Microscopy Co., Ltd.	LSM 700	For observing samples' immunofluorescence staining
Anti-Cytokeratin 19 antibody	abcam	ab52625	For identifying epithelium
Anti-vimentin antibody	abcam	ab92547	For identifying fibroblasts and activated macrophages
Anti-TE-7 antibody	Millipore	CBL271	For identifying fibroblasts in the dermis
Anti-CD68 antibody	Sigma-Aldrich	SAB2700244	For identifying macrophages
Human CD14 Antibody	R&D Systems	MAB3832-SP	For identifying macrophages
Alexa Fluor 594-conjugated secondary goat anti-rabbit antibody	Thermo Fisher Scientific	A11012	For immunofluorescence staining
Alexa Fluor 488-conjugated secondary goat anti-mouse antibody	Thermo Fisher Scientific	A11001	For immunofluorescence staining
EVOS FL Cell Imaging System	Thermo Fisher Scientific		For observing the sample's immunofluorescence staining
THP-1 cells	Riken BRC cell bank	RCB1189	For making iGTE
PMA(Phorbol 12-myristate 13-acetate)	Sigma-Aldrich	P8139	For differentiating THP-1 cells