

Materials List for:

Isolation of Basal Cells and Submucosal Gland Duct Cells from Mouse Trachea

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Materials

Name	Company	Catalog Number	Comments
Complete medium ¹⁰ : DMEM-F-12 , 50/50, 1X)	Mediatech	15-090-CV	
Hepes (15 mM)	Invitrogen	15630	
Sodium bicarbonate (3.6mM or 0.03%)	Invitrogen	25080	
L-glutamine (4 mM)	Mediatech	25-005-CI	
Penicillin (100 U/ml)	Mediatech	30-001-CI	
Streptomycin (100 µg/ml)	Mediatech	30-001-CI	
Insulin (10 µg/ml)	Sigma	I6634	
Transferrin (5 µg/ml)	Sigma	T1147	
Cholera toxin (0.1 µg/ml)	Sigma	C8052	
Epidermal Growth Factor (25 ng/ml)	BD	354001	
Bovine Pituitary Extract (30 µg/ml)	Invitrogen	13028-014	
Fetal Bovine Serum (5%)	Fisher	SH3008803HI	
Retinoic acid (0.05 µM)	Sigma	R2625	
Growth Factor Reduced Matrigel	BD	354230	

Table 1. Complete media components.

Pronase	Roche	10165921001	Used at 0.15%: -o/n at 4 °C digestion to isolate total tracheal cells (for ALI culture) -4 hr digestion 4 °C to isolate SMG
Dispase	BD Biosciences	354235	Used at 16 Units: 30 min at RT
DNase I	Sigma	DN25	Used at 0.5 mg/ml: 20-30 min at RT

Table 2. Enzymes used for enzymatic digestion of the trachea.