

Materials List for:

An Air-liquid Interface Bronchial Epithelial Model for Realistic, Repeated Inhalation Exposure to Airborne Particles for Toxicity Testing

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Materials

Name	Company	Catalog Number	Comments
0.01 M NaOH	Sigma Aldrich	S5881	
0.1M (x10) PBS	Gibco	14200-059	
2',7'-dichlorodihydrofluoresin diacetate (DCFH ₂ -DA)	Sigma Aldrich	D6883	
3-Morpholinopyrrolidine hydrochloride (SIN-1 hydrochloride)	Abcam	ab141525	
Amphotericin B	Thermo Fisher Scientific Inc.	15290	
Automated exposure station	Vitrocell		
Cell proliferation reagent WST-1	Roche	11644807001	
Centrifuge	Eppendorf		
CPC	TSI inc., St Paul MN, USA	3022	
Cytotoxicity detection kit LDH	Roche	11644793001	
DQ12	IOM		nanomaterials
ELISA Ready-SET-Go	Fischer Scientific	88-8086-86, 88-7399-88	
EVOM2	World Precision Instruments Inc., FL, USA	EVOM2-STX2	
FBS	Greiner bio-one	758093	
Flow splitter	TSI inc., St Paul MN, USA	model 3708	
Fluorescein diacetate (F-DA)	Sigma Aldrich	F7378	
HBSS	Thermo Fisher Scientific Inc.	14175	
Light microscope	Olympus	CKX41	
Mass flow controllers	MFC, Bronkhorst, the Netherlands		
Methanol (analytical grade)	Sigma Aldrich	34860	
Microbalance	Sartorius, Goettingen, Germany	ME-5	
Minimum essential medium (MEM) + GlutaMAX	Thermo Fisher Scientific Inc.	41090	
NEAA	Thermo Fisher Scientific Inc.	11140	
OPS	TSI inc., St Paul MN, USA	3339	
Pen/Strep	Thermo Fisher Scientific Inc.	15140	
Phenol red free MEM	Gibco	10500-064	
Pure water	Merck	MilliQ	
SMPS	TSI inc., St Paul MN, USA	3936	
Spray nozzle	Schlick, Coburg, Germany		

Teflon filters	Pall	R2PJ46	
TEOM	Rupprecht & Patashnick NY, USA	series 1400	
Tissue culture flask	Thermo Fisher Scientific Inc.	690175, 658175, 660175	
Transwell inserts	Corning	3460, 3462	
Trypsin-EDTA	Thermo Fisher Scientific Inc.	25300	
Tryptan Blue	Sigma Aldrich	T8154	