

Materials List for:

# Advanced 3D Liver Models for In vitro Genotoxicity Testing Following Long-Term Nanomaterial Exposure

Samantha V. Llewellyn<sup>1</sup>, Gillian E. Conway<sup>1</sup>, Ume-Kulsoom Shah<sup>1</sup>, Stephen J. Evans<sup>1</sup>, Gareth J.S. Jenkins<sup>1</sup>, Martin J.D. Clift<sup>1</sup>, Shareen H. Doak<sup>1</sup>

<sup>1</sup>In vitro Toxicology Group, Swansea University Medical School

Correspondence to: Shareen H. Doak at [s.h.doak@swansea.ac.uk](mailto:s.h.doak@swansea.ac.uk)

URL: <https://www.jove.com/video/61141>

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## Materials

Name	Company	Catalog Number	Comments
Aflatoxin B1	Sigma Aldrich, UK	A6636-5MG	
Agarose	Sigma Aldrich, UK	A9539-50G	
Autoclave Tape			
BCG Albumin Assay	Sigma Aldrich, UK	MAK124	
Bovine Serum Albumin Powder	Sigma Aldrich, UK	A9418	
Cell Freezing Aid	Thermo Fisher Scientific, UK	5100-0001 - Mr Frosty	
Centrifuge	Eppendorf	5810 R	
Cytochalasin B	Merck, UK	250233	
Cytology Metal Clips			
Cytospin 4 Centrifuge	ThermoFisher Scientific, UK	CM00730202	
DMEM with 4.5g/L D-Glucose, L-Glutamine	GIBCO, Paisley, UK	41965-039	
DMEM, phenol-red free with 4.5g/L D-Glucose, L-Glutamine with HEPES	GIBCO, Paisley, UK	21063-029	
DPX Mounting Medium	FisherScientific, UK	D/5330/05	
Ethanol	FisherScientific, UK	10048291	
FBS	GIBCO, Paisley, UK	10270-106	
Filter Cards for Shandon Cytospin	FisherScientific, UK	15995742	
Frosted Glass Slides	ThermoFisher Scientific, UK		
Giemsa's Stain Improved R66 Solution, Gurr	VWR Chemicals, UK	MFCD00081642	
Glass Coverslips (24 x 60)	Deckglaser, VWR	ECN631-1575	
Haemocytometer and Coverslip			
Immersion Oil for Microscope	Zeiss, UK	518F, ISO8034	
Laminar Class II Tissue Culture Hood	Scanlaf Mars		
Light Microscope	Zeiss, UK	Axiovert 40C	
Liquid Nitrogen			
Methanol	FisherScientific, UK	10284580	
Microwave			
Non-Filtered, Sterile 200µl and 1000µl Pipette tips	Greiner-Bio-One, UK		
NuncMicroWell 96-Well Microplates	ThermoFisher Scientific, Denmark	167008	
P1000 and P200 micropipettes			

P300 and P50 multi-channel pipettes			
PBS pH 7.4 1X, MgCl <sub>2</sub> and CaCl <sub>2</sub> Free	GIBCO, Paisley, UK	14190-094	
Pen/Strep	GIBCO, Paisley, UK	15140-122, Penicillin/Strepmyocin 100X or 10,000U/ml	
Phosphatase Buffer Tablets	GIBCO, Paisley, UK	10582-013	
Pipette Boy			
Simport Scientific CytoSep Funnels for Shandon Cytospin 4 Centrifuges	FisherScientific, UK	11690581	
Sonifier SFX 550 240V CE 1/2" - Probe	Branson, USA	101-063-971R	
T-25 and T-75 Tissue Culture Flask	Greiner-Bio-One, UK	T-25 (690175) and T-75 (660175)	
Trypan Blue Solution	Sigma Aldrich, UK	T8154-100mL	
Urea Assay Kit	Sigma Aldrich, UK	MAK006	
Virkon Disinfectant	DuPont, UK	Rely+On Virkon	
Water Bath (37°C)	Grant JBNova 18		
Weighing Balance			
Xylene	FisherScientific, UK	10588070	
0.05% Trypsin-EDTA	GIBCO, Paisley, UK	5300-054	
0.2mL and 1.0mL Eppendorf Tubes	Greiner-Bio-One, UK		
0.45µm Filter Unit	Millex HA, MF-Millipore, UK	SLHA033SS	
1.0mL Syringe	BD Plastipak, FisherScientific, UK	300185	
20mL LS Scintillation Glass Vials, 22-400 Foil Lined PP Caps	DWK Life Sciences GmbH, Germany	WHEA986581	
37°C and 5% CO <sub>2</sub> ISO Class 5 Hepa Filter Incubator	NUAIRE DHD Autoflow		
3mL Pasteur Pipette	Greiner-Bio-One, UK		
50mL Conical Falcon Tubes	Greiner-Bio-One, UK		
50mL or 100mL Glass Bottles			
50mL Skirted Falcon Tubes	Greiner-Bio-One, UK		
5mL, 10mL and 25mL Pipettes	Greiner-Bio-One, UK		
9.4cm Square, Petri Dish	Greiner-Bio-One, UK	688161	