

Use of Capillary Aerosol Generator in Continuous Production of Controlled Aerosol for Non-Clinical Studies

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Materials

Name	Company	Catalog Number	Comments
Aluminium front cap	Mecanique Buri S.A., La Chaux-de Fonds, Switzerland	Custom Built	Purpose built, 1 x
Aluminium heating block, groove diameter 0.4mm	Phil Gunn Machine Co., Inc, VA, USA	B-505432	2 x
Aluminium rear cap	Mecanique Buri S.A., La Chaux-de Fonds, Switzerland	Custom Built	1 x
Cambridge glass filter pads	GE Healthcare UK Limited	9703-9654	44 mm diameter
Capillary 21 G SS, 160 mm	Phil Gunn Machine Co., Inc, VA, USA	304H21RW	1 x
Dry wipes	Contec Inc., SC, USA	Prosat Wipes saturated with isopropyl alcohol	cleaning material
Flowmeter	TSI, Shoreview, MI, USA	4100 Series, 0-20 L/min	or equivalent
Gilibrator-2 calibrator	Sensidyne, St-Petersburg FL, USA	Gilian Gilibrator-2	Air flow calibrator
Glass Couplings	Labo Service, Kontich, Belgium	QVF	
Glass piping	Labo Service, Kontich, Belgium	QVF	Pipe 25 and 40 mm
Heating elements	Phil Gunn Machine Co., Inc, VA, USA	LDC01864	4 x
High heat grease	Lubriplate Lubricant Company, NJ, USA	High temperature multipurpose grease	CAG maintenance
Inner PEEK tube	Mecanique Buri S.A., La Chaux-de Fonds, Switzerland	Custom Built	1 x
Magnetic stirrer	IKA-Werke GmbH & Co. KG, Staufen, Germany	C-MAG HS 4	or equivalent
Micro impingers	Labo Service, Kontich, Belgium	Custom Built	
Outer SS tube	Mecanique Buri S.A., La Chaux-de Fonds, Switzerland	Custom Built	1 x
PEEK adaptor	Mecanique Buri S.A., La Chaux-de Fonds, Switzerland	Custom Built	Purpose built, 1 x
Peristaltic pump	Watson-Marlow Fluid Technology Group, Falmouth, UK	Watson-Marlow 530 U	or equivalent
Push-in fitting	Festo Pte Ltd	NPQM-DK-M5-Q4-P10	1 x

Sample Column Extrelut NT3 cartridge	Merk Sigma-Aldrich	115095	
SS 25 mm assembly cap	Mecanique Buri S.A., La Chaux-de-Fonds, Switzerland	Custom Built	Purpose built, 1 x
SS M8 lead screw	Mecanique Buri S.A., La Chaux-de-Fonds, Switzerland	Custom Built	3 x
SS M8 nut	Mecanique Buri S.A., La Chaux-de-Fonds, Switzerland	Custom Built	3 x
SS rear backing	Mecanique Buri S.A., La Chaux-de-Fonds, Switzerland	Custom Built	Purpose built, 1 x
Temperature controller	Cole Parmer GmbH, Wertheim, Germany	Digi-Sense TC 9600	or equivalent
Thermocouple type K	RS Components GmbH, Wädenswil, Switzerland	814-0147	1 x