

Materials List for

Label-Free Quantitative Proteomics Workflow for Discovery-Driven Host-Pathogen Interactions

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jove.com/video/61881

Materials

Name	Company	Catalog Number	Comments
100 mM Tris-HCl, pH 8.5	Fisher Scientific	BP152-1	Maintain at 4°C
60 x 15 mm Dish, Nunclon Delta	ThermoFisher Scientific	174888	
6-well cell culture plate	ThermoFisher Scientific	140675	
Acetonitrile, MS grade	Pierce	TS-51101	
Acetic Acid	Sigma Aldrich	1099510001	
Acetone	Sigma Aldrich	34850-1L	
Ammonium bicarbonate (ABC)	ThermoFisher Scientific	A643-500	Prepare a stock 50 mM ABC solution, stable at room temperature for up to one month.
Bel-Art™ HiFlow Vacuum Aspirator Collection System	Fisher Scientific	13-717-300	Not essential, serological pipettes can be used to remove media.
C18 resin	3M Empore	3M2215	
Cell Scrapers	VWR	10062-906	Not essential, other methods to release macrophage cells can be used.
Centrifugal vacuum concentrator	Eppendorf	07-748-15	
Complete Filtration Unit	VWR	10040-436	
Conical falcon tubes (15 mL)	Fisher Scientific	05-539-12	
Countess II Automated Cell Counter	ThermoFisher Scientific	AMQAX1000	Not essential, haemocytometer can be used as an alternative.
CytoTox 96 Non-Radioactive Cytotoxicity Assay	Promega	G1780	
Dithiothreitol (DTT)	ThermoFisher Scientific	R0861	Prepare bulk stock solution of 1 M DTT, flash frozen and stored at -20 °C until use. Discard after each use (do not freeze-thaw repeatedly).
DMEM, high glucose, GlutaMAX Supplement	ThermoFisher Scientific	10566016	
Fetal Bovine Serum (FBS)	ThermoFisher Scientific	12483020	Heat inactivate by incubating at 60°C for 30 minutes. Prepare 50 ml aliquots and flash freeze. Thaw prior to media preparation

Haemocytometer	VWR	15170-208	
HEPES	Sigma Aldrich	H3375	Prepare 40 mM HEPES/8 M Urea in bulk stock solution, flash frozen, store at -20 °C until use. Discard after each use (do not freeze-thaw repeatedly).
High-performance liquid chromatography system	ThermoFisher Scientific	LC140	Gradient length is based on sample complexity, recommended 120 min gradient for infectome samples.
High-resolution mass spectrometer	ThermoFisher Scientific	726042	
Iodoacetamide (IAA)	Sigma Aldrich	I6125	Prepare 0.55 M bulk stock solution, flash frozen, store at -20 °C until use. Discard after each use (do not freeze-thaw repeatedly).
L-glutamine	ThermoFisher Scientific	25030081	Can be aliquot and frozen for storage. Thaw prior to media preparation.
LoBind Microcentrifuge tubes	Eppendorf	13-698-794	
MaxQuant	https://maxquant.org/		MaxQuant is a public platform that offers tutorials, such as the MaxQuant Summer School, outlining the computational analysis steps of large MS data sets
Microcentrifuge	Eppendorf	13864457	
Penicillin : Streptomycin 10k/10k	VWR	CA12001-692	Can be aliquot and frozen for storage. Thaw prior to media preparation.
Peptide separation columns	ThermoFisher Scientific	ES803	
Perseus Software	http://maxquant.net/perseus/		
Phosphate Buffered Saline	VWR	CA12001-676	Purchase not required. PBS can also be prepared but sterile filtration must be performed before use.
Pierce BCA Protein Assay	ThermoFisher Scientific	23225	
Pipette, Disposable Serological (10 mL)	Fisher Scientific	13-678-11E	
Pipette, Disposable Serological (25 mL) Basix	Fisher Scientific	14955235	
Probe sonicator	ThermoFisher Scientific	100-132-894	
Protease inhibitor cocktail tablet	Roche	4693159001	
Sodium dodecyl sulfate	ThermoFisher Scientific	28364	20% (w/v)
Spectrophotometer (Nanodrop)	ThermoFisher Scientific	ND-2000	
STAGE tipping centrifuge	Sonation	STC-V2	
Thermal Shaker	VWR	NO89232-908	
Trifluoroacetic acid	ThermoFisher Scientific	85183	
Trypsin/Lys-C protease mix, MS grade	Pierce	A40007	Maintain at -20 °C.
Ultrasonic bath	Branson	A89375-450	Stored in cold room (4C)
Urea	Sigma Aldrich	U1250-1KG	Prepare 40 mM HEPES/8 M Urea in bulk stock solution, flash frozen, store at -20 °C until use. Discard after each use (do not freeze-thaw repeatedly).
Yeast-extract peptone dextrose broth	BD Difco	BM20	