

Materials List for:

# An Aquatic Microbial Metaproteomics Workflow: From Cells to Tryptic Peptides Suitable for Tandem Mass Spectrometry-based Analysis

David Colatriano<sup>1</sup>, David A. Walsh<sup>1</sup>

<sup>1</sup>Department of Biology, Concordia University

Correspondence to: David Colatriano at [d\\_colat@live.concordia.ca](mailto:d_colat@live.concordia.ca)

URL: <https://www.jove.com/video/52827>

DOI: [doi:10.3791/52827](https://doi.org/10.3791/52827)

## Materials

Name	Company	Catalog Number	Comments
Sterivex -GP 0.22 µm filter unit	Millipore	SVGP01050	Sampling
RNAlater Stabilization Solution	Ambion	AM7021	Sampling
Tris	Bio Basic	77-86-1 or TB0196-500G	Protein Extraction/ SDS PAGE gel
DTT	Sigma-Aldrich	D0632-1G	Protein Extraction
SDS	Bio Basic	15-21-3	Protein Extraction/ SDS PAGE gel
EDTA	Bio Basic	6381-92-6	Protein Extraction
Glycerol	Fisher Scientific	56-81-5	Protein Extraction
10K Amicon Filter	Millipore	UFC801024	Protein Extraction
Methanol	Sigma-Aldrich	179337-4L	Protein Precipitation
Acetone	Fisher Scientific	67-64-1	Protein Precipitation
MPC Protein Precipitation reagent	Epicenter	mmP03750	DNA Precipitation
2-Propanol	Fisher Scientific	67-63-0	DNA Precipitation
Qubit dsDNA BR Assay kit	Life Technologies	Q32850	DNA Quantification
Qubit Protein Assay kit	Life Technologies	Q33211	Protein Quantification
Sucrose	Bio Basic	57-50-1	SDS PAGE gel
TEMED	Bio Rad	161-0800	SDS PAGE gel
APS	Bio Rad	161-0700	SDS PAGE gel
30% Acrylamide	Bio Rad	161-0158	SDS PAGE gel
SimplyBlue SafeStain	Invitrogen	LC6060	SDS PAGE gel
Glycine	Bio Rad	161-0718	SDS PAGE gel
B-mercaptoethanol	Bio Basic	60-24-2	SDS PAGE gel
Laemmli Sample Buffer	Bio Rad	161-0737	SDS PAGE gel
Precision Plus Protein Kaleidoscope Ladder	Bio Rad	161-0375EDU	SDS PAGE gel
Acetonitrile	VWR	CABDH6044-4	In-gel Trypsin digest
NH4HCO3	Bio Basic	1066-33-7	In-gel Trypsin digest
DTT	Sigma-Aldrich	D0632-1G	In-gel Trypsin digest
Formic Acid	Sigma-Aldrich	F0507-500ML	In-gel Trypsin digest
HPLC grade H2O	Sigma-Aldrich	270733-4L	In-gel Trypsin digest
Iodoacetamide	Bio Basic	144-48-9	In-gel Trypsin digest
Trypsin	Promega	V5111	In-gel Trypsin digest
Protein LoBind Tube 1.5 ml	Eppendorf	22431081	In-gel Trypsin digest
2 ml ROBO vial 9 mm	Candian Life Science	VT009/C395SB	In-gel Trypsin digest
PP BM insert, No spring	Candian Life Science	4025P-631	In-gel Trypsin digest