

Materials List for

# Phosphoproteomic Strategy for Profiling Osmotic Stress Signaling in *Arabidopsis*

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jove.com/video/61489

## Materials

Name	Company	Catalog Number	Comments
1.5 mL tube	eppendorf	22431081	Protein LoBind, 1.5 mL, PCR clean, colorless, 100 tubes
200 µL pipet tip	Gilson	F1739311	
2-chloroacetamide	Sigma-Aldrich	C0267	
acetic acid	Sigma-Aldrich	5438080100	
acetonitrile	Sigma-Aldrich	271004	
ammonium hydroxide	Sigma-Aldrich	338818	
ammonium phosphate monobasic	Sigma-Aldrich	216003	
BCA Protein Assay Kit	Thermo Fisher Scientific	23227	
blunt-ended needle	Hamilton	90516	Kel-F hub (KF), point style 3, gauge 16
C18-AQ beads	Dr. Maisch	ReproSil-Pur-C18-AQ 5 µm	
C8 Empore disk	3 M	2214	47 mm
Centrifuge	eppendorf	22620444	
chloroform	Sigma-Aldrich	CX1058	
data analysis software		Perseus 1.6.2.1	<a href="https://maxquant.net/perseus/">https://maxquant.net/perseus/</a>
ethylenediaminetetraacetic acid (EDTA)	Sigma-Aldrich		
formic acid	Sigma-Aldrich	5330020050	
Frits	Agilent	12131024	Frits for SPE Cartridges
Guanidine hydrochloride	Sigma-Aldrich	50933	
H2O	Sigma-Aldrich	1153334000	
HEPES	Sigma-Aldrich	H3375	
Iron (III) chloride	Sigma-Aldrich	157740	
LTQ-orbitrap	Thermo Fisher Scientific	Velos Pro	
mass spectrometer	Thermo Fisher Scientific	LTQ-Orbitrap Velos Pro	
methanol	Sigma-Aldrich	34860	

nano LC	Thermo Fisher Scientific	Easy-nLC 1000	
Ni-NTA spin column	Qiagen	31014	
N-Lauroylsarcosine sodium salt	Sigma-Aldrich	L9150	
plunger	Hamilton	1122-01	Plunger assembly N, RN, LT, LTN for model 1702 (25 µl)
search engine software		MaxQuant 1.5.4.1	<a href="https://www.maxquant.org">https://www.maxquant.org</a>
SEP-PAK Cartridge 50 mg	Waters	WAT054960	
sodium deoxycholate	Sigma-Aldrich	D6750	
SpeedVac	Thermo Fisher Scientific	SPD121P	
TMT 6-plex	Thermo Fisher Scientific	90061	
Triethylammonium bicarbonate buffer	Sigma-Aldrich	T7408	
Trifluoroacetic acid	Sigma-Aldrich	91707	
Tris(2-carboxyethyl)phosphine hydrochloride	Sigma-Aldrich	C4706	
Trizma hydrochloride	Sigma-Aldrich	T3253	