

The Application of Open Searching-based Approaches for the Identification of *Acinetobacter baumannii* O-linked Glycopeptides

Jessica M. Lewis^{*1}, Pauline M. L. Coulon^{*1}, Taylor A. McDaniels^{*1}, Nichollas E. Scott¹

¹Department of Microbiology and Immunology, Peter Doherty Institute for Infection and Immunity, The University of Melbourne

* These authors contributed equally

Corresponding Author

Nichollas E. Scott

nichollas.scott@unimelb.edu.au

Citation

Lewis, J.M., Coulon, P.M.L., McDaniels, T.A., Scott, N.E. The Application of Open Searching-based Approaches for the Identification of *Acinetobacter baumannii* O-linked Glycopeptides. *J. Vis. Exp.* (177), e63242, doi:10.3791/63242 (2021).

Date Published

November 2, 2021

DOI

10.3791/63242

URL

jove.com/video/63242

Materials

Name	Company	Catalog Number	Comments
14 G Kel-F Hub point style 3	Hamilton company	hanc90514	
2-Chloroacetamide	Sigma Aldrich Pty Ltd	C0267-100G	
Acetonitrile	Sigma Aldrich Pty Ltd	34851-4L	
Ammonium hydroxide (28%)	Sigma Aldrich Pty Ltd	338818-100ML	
BCA Protein Assay Reagent A	Pierce	23228	
BCA Protein Assay Reagent B	Pierce	23224	
C8 Empore SPE	Sigma Aldrich Pty Ltd	66882-U	An alternative vendor for C8 material is Affinise (https://www.affinise.com/about-us/)
Formic acid	Sigma Aldrich Pty Ltd	5.33002	
Isopropanol	Sigma Aldrich Pty Ltd	650447-2.5L	
Methanol	Fisher Chemical	M/4058/17	
SDB-RPS Empore SPE (Reversed-Phase Sulfonate)	Sigma Aldrich Pty Ltd	66886-U	An alternative vendor for SDB-RPS is Affinise (https://www.affinise.com/about-us/)
Sodium Deoxycholate	Sigma Aldrich Pty Ltd	D6750-100G	
ThermoMixer C	Eppendorf	2232000083	
trifluoroacetic acid	Sigma Aldrich Pty Ltd	302031-10X1ML	
Tris 2-carboxyethyl phosphine hydrochloride	Sigma Aldrich Pty Ltd	C4706-2G	
Tris(hydroxymethyl)aminomethane	Sigma Aldrich Pty Ltd	252859-500G	
Trypsin/Lys-C protease mixture	Promega	V5073	
Vacuum concentrator	Labconco	7810040	
ZIC-HILIC material	Merck	1504580001	Resin for use in single use SPE columns can be obtained by emptying a larger form column and using the free resin