

MAR 29, 2024

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DOI:

dx.doi.org/10.17504/protocols.io. eq2lywdzpvx9/v1

Protocol Citation: Joanna Bons, J P Rose, M A Watson, B Schilling 2024. Proteolytic Peptides from Conditioned Media Desalting with C18 Hydrophilic— Lipophilic Balance (HLB) Cartridges . protocols.io https://dx.doi.org/10.17504/protoc ols.io.eq2lywdzpvx9/v1

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**Protocol status:** Working We use this protocol and it's working

## Proteolytic Peptides from Conditioned Media Desalting with C18 Hydrophilic–Lipophilic Balance (HLB) Cartridges

Forked from Proteolytic Peptide Desalting with C18 Hydrophilic—Lipophilic Balance (HLB) Cartridges

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## **ABSTRACT**

Desalting of proteolytic peptides from conditioned media elution using C<sub>18</sub> Hydrophilic– Lipophilic Balance (HLB) Cartridges in preparation for downstream proteomic profiling.

For desalting of proteolytic peptides from conditioned media Step 4 is modified as we typically reconstitute in an appropriate volume of 0.2% FA rather than by weight/volume due to the input material for digestion also being based on a proportion of the volume of concentrated conditioned media.

Mar 29 2024

Created: Mar 25, 2024

Last Modified: Mar 29, 2024

PROTOCOL integer ID: 97347

**Keywords:** Desalting, HLB, Peptides, Proteomics, Mass Spectrometry, Conditioned Media, Secretome, SASP

## **MATERIALS**

- Oasis HLB 1cc cartridges, 10 mg sorbent (Waters, Cat. #WAT058882)
- Vacuum manifold
- Centrifuge
- Centrifugal vacuum concentrator
- 1.5-mL microcentrifuge tubes
- Condition buffer/Elution buffer: 50% acetonitrile (ACN), 0.2% formic acid (FA) in water
- Equilibration buffer/Wash buffer: 0.2% formic acid (FA) in water
- HPLC-grade water
- 1 Centrifuge the samples at 1,850 x g for 5 minutes at room temperature to pellet insoluble material.
- 2 Desalt the samples using Oasis HLB solid-phase extraction cartridges placed on top of a vacuum manifold as follows:
  - 2.1 Condition each cartridge two times with 800 μL of the condition buffer (50% ACN, 0.2% FA).
  - 2.2 Equilibrate each cartridge three times with 800  $\mu$ L of the equilibration buffer (0.2% FA).
  - **2.3** Load the peptide samples.

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5 Centrifuge at 12,000 x g at room temperature for 2 min, and store at -20°C.