

PROTOCOL TAKE A BEAD OUT FROM THE VIAL

-  Unscrew the cap and place it on top of vial
-  Return the vial upside down
-  Gently incline the vial while 1 bead stays into the cap
-  Transfer the READYBEADS from the cap into your working tube. A tube or a vial is required to optimally dissolve the bead.

PROTOCOL FOR DSP SAMPLES

Step 1



60 μ L of sample diluted to 2.5 mg/ml

Step 2 Denaturation



180 μ L of Urea 8M
10min at ambient temperature

Step 3 Reduction



27 μ L of DTT 200mM
40 minutes at 60°C

Step 4 Alkylation



90 μ L of IAA 200mM
40 minutes at ambient temperature

Step 5 Digestion



7.5 μ L of trypsin at 1mg/mL

QSP 1500 μ L with Ammonium bicarbonate 50mM pH8



Overnight digestion at 37°C
Stop digestion with 1.5 μ L of TFA

Step 6

HCPprofiler

by ANAQUANT



Add 1 beads.
Agitate 2 minutes for beads dissolution

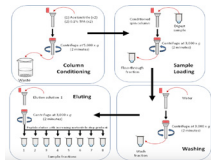


Centrifugation 15000g for 20min
And supernatant recovery

Step 7 High pH sample fractionation

ANAQUANT recommend to use Pierce fractionation kit (Ref 84868)

Fractionation protocol according to Pierce user guide



- 1. Conditioning:** 2X 300 µL ACN and 2X 300 µL 0.1% TFA
Then Centrifuge at 5000g 2 minutes
- 2. Sample loading:** 2X 300 µL of digested sample
Then centrifuge at 3000g 2 minutes
- 3. Washing:** 300 µL H₂O and centrifuge at 3000g 2 minutes
- 4. Elution:** Elute in 8 fractions of 300 µL according to following table

Fraction No.	Acetonitrile (%)	Acetonitrile (µL)	Triethylamine (0.1%) (µL)
1	5.0	50	950
2	7.5	75	925
3	10.0	100	900
4	12.5	125	875
5	15.0	150	850
6	17.5	175	825
7	20.0	200	800
8	50.0	500	500

5. Sample evaporation to dryness

Step 8 Sample injection



Step 9 Data preprocessing



Proteome Discoverer, use:

- FASTA-ProteomeDiscoverer_HCPprofiler
- Parsing rules and layout provided by ANAQUANT
- Export Proteins.txt and PeptideGroups.txt

Contact ANAQUANT
for other software use

Step 10 HCPprofiler application

Choose software and import data in HCP application

The screenshot shows the 'Import New Sample' window in the HCPprofiler application. The sample name is 'Sample 1: HCPprofiler_Fractionation'. The 'Fractionation' checkbox is checked, and the 'BEADS diluted into sample' checkbox is unchecked. The 'Fraction Final volume per fraction' is set to 100 µL, and the 'Injected volume' is set to 5 µL. The 'BEADS volume' is set to 10 µL, with a note indicating it is 2/5 of the whole BEADS (refractionation). The 'Quality control accession - opt' is set to 'CG', and the 'Injected QC quantity - opt' is set to 'X' (test). The 'Drug substance (Accession) - opt' is set to 'DS', and the 'Injected drug substance quantity - opt' is set to '2000' ng. The 'Import Sample' button is visible at the bottom.

STORAGE CONDITIONS

Store your READYBEADS at -20°C
in their original vial

For research use only (RUO)

For more information, visit anaquant.com