

Nanotrap Protein Enrichment Affinity Kit User Guide

Kit Contents and Equipment List

This document contains information on the number of samples that can be processed per kit, lists the kits' components and the storage conditions, and specifies the necessary reagents, materials, and equipment for each kit and protocol. Please review the kit contents and storage conditions carefully and refer to this document to ensure that you have all the necessary materials for your intended procedure.

Nanotrap[®] Protein Enrichment Affinity Kit (PEAK) Contents

Sample Volumes

To process plasma or cerebrospinal fluid samples, we recommend using the following amounts of sample, Nanotrap[®] Protein Particles and Nanotrap[®] Buffer 4.

- **Plasma**
 - 50 µL plasma collected in a K2EDTA blood collection tube or a Streck Protein Plus BCT™
 - Nanotrap Protein Particles. Choose one of the following:
 - o 200 µL of Nanotrap[®] Protein A Particles;
 - o 200 µL of Nanotrap[®] Protein B Particles;
 - o 200 µL of Nanotrap[®] Protein C Particles; or
 - o 66 µL each of Nanotrap Protein A Particles, Nanotrap Protein B Particles, and Nanotrap Protein C Particles.
 - 150 µL of Nanotrap Buffer 4
- **Cerebrospinal fluid**
 - 200 µL cerebrospinal fluid
 - 100 µL of Nanotrap Protein Particles
 - 100 µL of Nanotrap Buffer 4

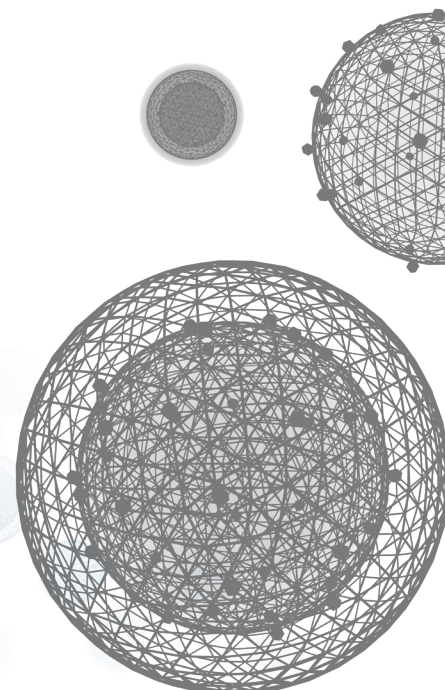
Number of Samples Per Kit

Nanotrap Protein Enrichment Affinity Kit – Discovery, SKU 34200	
Sample Type	# Samples
50 µL plasma	24
200 uL cerebrospinal fluid	48

Nanotrap Protein Enrichment Affinity Kit – A, SKU 34210	
Sample Type	# Samples
50 µL plasma	50
200 uL cerebrospinal fluid	100

Nanotrap Protein Enrichment Affinity Kit – B, SKU 34220	
Sample Type	# Samples
50 µL plasma	50
200 uL cerebrospinal fluid	100

Nanotrap Protein Enrichment Affinity Kit – C, SKU 34230	
Sample Type	# Samples
50 µL plasma	50
200 uL cerebrospinal fluid	100



Kit Content and Storage Conditions

Nanotrap Protein Enrichment Affinity Kit – Discovery SKU 34200		
Kit Component	Amount	Storage Condition
Nanotrap Protein A Particles	1.6 mL	2°C to 8°C
Nanotrap Protein B Particles	1.6 mL	2°C to 8°C
Nanotrap Protein C Particles	1.6 mL	2°C to 8°C
Nanotrap Buffer 4	5 mL	2°C to 8°C

Nanotrap Protein Enrichment Affinity Kit – B SKU 34220		
Kit Component	Amount	Storage Condition
Nanotrap Protein B Particles	10 mL	2°C to 8°C
Nanotrap Buffer 4	12 mL	2°C to 8°C

Nanotrap Protein Enrichment Affinity Kit – A SKU 34210		
Kit Component	Amount	Storage Condition
Nanotrap Protein A Particles	10 mL	2°C to 8°C
Nanotrap Buffer 4	12 mL	2°C to 8°C

Nanotrap Protein Enrichment Affinity Kit – C SKU 34230		
Kit Component	Amount	Storage Condition
Nanotrap Protein C Particles	10 mL	2°C to 8°C
Nanotrap Buffer 4	12 mL	2°C to 8°C

Manual Protocols

Required reagents and equipment (not included in the Nanotrap Protein Enrichment Affinity Kit). The reagents and equipment listed here are required for the following Nanotrap Protein Enrichment Affinity Kit manual protocols:

- Manual Protein Enrichment from Plasma Samples Collected in K2EDTA Blood Collection Tube or Streck Protein Plus BCT™

Product	Company Name	SKU
High-speed centrifuge (capable of 5,000 x g for plasma preparation)	N/A	N/A
Magnetic racks for 2 mL tube sizes – Thermo Fisher Scientific DynaMag™ racks recommended*	Thermo Fisher Scientific	12321D
Protein LoBind®, 2mL tube recommended	Eppendorf	022431102
50 mL conical centrifuge tube or similar	N/A	N/A
Vortex Mixer with 2 mL tube-compatible attachment	N/A	N/A
Vortex Mixer	N/A	N/A
Micropipette and Tips	N/A	N/A
Digital heat block with 2 mL tube-compatible attachment – myBlock Mini Digital Dry Bath recommended	Southern Labware	BSH200
Calibrated benchtop pH meter	N/A	N/A
Rapid Digestion–Trypsin/Lys-C Kit	Promega	VA1061
Ammonium Bicarbonate, BioUltra, ≥99.5%	Sigma Aldrich	09830
500 mM Bond-Breaker™ TCEP Solution, Neutral pH	Thermo Fisher Scientific	77720
Pierce™ Alkylating Reagent, Iodoacetamide, No-Weigh™ Format	Thermo Fisher Scientific	A39271
Trifluoroacetic acid (TFA), ReagentPlus®, 99%	Sigma Aldrich	T6508
Deionized water	N/A	N/A
HPLC grade water, HPLC Plus, suitable for HPLC, suitable for SM 4500 - NH3 recommended	Sigma Aldrich	34877

Contact Us

Phone: +1.800.615.0418x1
 Web: www.ceresnano.com
 Email: info@ceresnano.com