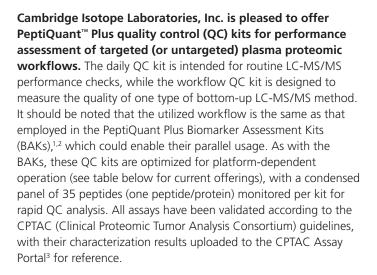
PeptiQuant™ Plus Quality Control Kits

For Targeted and Untargeted Proteomics



	Platforms Available		
Kit Type	Agilent	Sciex QTRAP®	Thermo Scientific™
	6490/6495	6500	Q Exactive™ Plus
Daily QC			•
Workflow QC			

The daily QC kits are available for 10, 20, and 50 injections. The workflow QC kits are available for 1 and 2 runs.

Note: Please inquire if an alternate LC-MS/MS platform or alternate kit number (i.e., for daily injection or workflow run) is desired.

Features and Benefits

- CPTAC-certified assays
- SIS and NAT peptides for each target protein
- Rapid performance evaluation of LC-MS/MS platform and/or analytical workflow
- Reduces development time and cost

Kit Contents

 Starting materials (lyophilized), with all five vials utilized in the workflow QC kit (for one analytical run) and vial 1 only in the daily QC kit (enables five injections):

Vial 1 ("S" on cap): SIS peptide mix for spiking into standard

curve, QC, and experimental sample digests

Vial 2 (clear cap): NAT peptide mix for spiking into standard

curve and QC sample digests

Vial 3 (purple cap): TPCK-treated trypsin (1 mg/mL after

100 mM Tris pH 8.0 addition)

Vial 4 (green cap): BSA (10 mg/mL after PBS addition)

Vial 5 (blue cap) Human plasma

 USB containing user manual, guideline performance values, acquisition method (for given instrument platform), and Skyline analysis file

References

- 1. Percy, A.J.; Borchers, C.H. **2021**. Detailed method for performing the ExSTA approach in quantitative bottom-up plasma proteomics. *Methods Mol Biol, doi: 10.1007/978-1-0716-1024-4*.
- 2. Gaither, C.; Popp, R.; Mohammed, Y.; et al. **2020**. Determination of the concentration range for 267 proteins from 21 lots of commercial human plasma using highly multiplexed multiple reaction monitoring mass spectrometry. *Analyst*, *145*(10), 3634-3644.
- 3. Whiteaker, J.R.; Halusa, G.N.; Hoofnagle, A.N.; et al. 2014. CPTAC Assay Portal: a repository of targeted proteomic assays. Nat Methods, 11(7), 703-704.

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PeptiQuant Plus QC Panel

Human Plasma QC Kit

Protein	Uniprot Acc.
Adiponectin	Q15848
Afamin	P43652
α -1-acid glycoprotein 1	P02763
α -1-antichymotrypsin	P01011
α -1-antitrypsin	P01009
α -2-antiplasmin	P08697
α-2-macroglobulin	P01023
Antithrombin-III	P01008
Apolipoprotein A-I	P02647
Apolipoprotein A-IV	P06727
Apolipoprotein B-100	P04114
Apolipoprotein E	P02649
Attractin	075882
β-2-glycoprotein 1	P55058
Carbonic anhydrase 1	P00915
CD5 antigen-like	043866
Clusterin	P10909
Complement C1r subcomponent	P32119

Protein	Uniprot Acc.
Complement C3	P01024
Complement component C9	P02748
Complement factor B	P00751
Fibrinogen γ chain	P02679
Fibulin-1	P23142
Haptoglobin	P00738
Hemoglobin subunit $lpha$	P69905
Hemopexin	P02790
Heparin cofactor 2	P05546
Hyaluronan-binding protein 2	Q14520
Inter- α -trypsin inhibitor heavy chain H2	P19823
Kininogen-1	P01042
Pigment epithelium-derived factor	P36955
Plasminogen	P00747
Serotransferrin	P02787
Serum albumin	P02768
Vitronectin	P04004