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RESEARCH PRODUCTS

PeptiQuant™ Plus Quality Control Kits

For Targeted and Untargeted Proteomics



New!

Cambridge Isotope Laboratories, Inc. is pleased to offer PeptiQuant™ Plus quality control (QC) kits for performance assessment of targeted (or untargeted) plasma proteomic workflows. The daily QC kit is intended for routine LC-MS/MS performance checks, while the workflow QC kit is designed to measure the quality of one type of bottom-up LC-MS/MS method. It should be noted that the utilized workflow is the same as that employed in the PeptiQuant Plus Biomarker Assessment Kits (BAKs), which could enable their parallel usage. As with the BAKs, these QC kits are optimized for platform-dependent operation (see table below for current offerings), with a condensed panel of 35 peptides (one peptide/protein) monitored per kit for rapid QC analysis. All assays have been validated according to the CPTAC (Clinical Proteomic Tumor Analysis Consortium) guidelines, with their characterization results uploaded to the CPTAC Assay Portal¹ for reference.

Catalog No.*	Description
LCMSP-QC-6490-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Agilent 6490
LCMSP-QC-6495-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Agilent 6495
LCMSP-QC-6500-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Sciex QTRAP® 6500
LCMSP-QC-QE-INJ	PeptiQuant Plus Human Plasma Daily QC Kit for Thermo Scientific™ Q Exactive™ Plus
WFPK-A6490-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Agilent 6490
WFPK-A6495-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Agilent 6495
WFPK-SC6500-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Sciex 6500
WFPK-QE-P	PeptiQuant Plus Human Plasma Workflow QC Kit for Thermo Scientific Q Exactive Plus

*The daily QC kits are available for 10 (\$485), 20 (\$785), and 50 (\$1,555) injections. The workflow QC kits are available for 1 (\$415) and 2 (\$590) runs. Pricing valid for US and Canada.

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

Features and Benefits

- CPTAC-certified assays
- 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** (red 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

Specifications

Criteria	Note
Shipping	on dry ice
Storage	-80°C
Stability	six weeks
Isotopic enrichment (for SIS peptides)	>98% for Lys-[¹³ C ₆ , ¹⁵ N ₂] and Arg-[¹³ C ₆ , ¹⁵ N ₄] peptides
Chemical purity	91% on average (via capillary zone electrophoresis)

Reference

1. 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.