Modified Lowry Protein Quantification Kit

Cat. No. PQT-004 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Under alkaline conditions, the peptide bond in the protein binds to copper to form a complex, and the phosphomolybdate-phosphotungstate in the Folin-phenol reagent is reduced by the tyrosine and phenylalanine residues in the complex protein, producing a deep blue color. Under certain conditions, the depth of the blue color is proportional to the amount of protein, and the amount of protein can be calculated according to the size of the light absorption value at 750 nm.
Specification	500 T, 1,000 T
Testing Methods	Enzyme labeler or spectrophotometer
Applicable	Protein samples
Applications	Protein quantification
Instrument Preparation	1. Enzyme labeler or spectrophotometer 2. Pipette 3. Refrigerator 4. Icebox
Reagent Preparation	1. Pure water 2. Saline
Consumables Preparation	1. Centrifuge tube 2. Pipette tips

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	3. Disposable gloves 4. 96-well plate
Usage	1. BSA powder dissolved in the protein standard preparation solution, that is, to obtain the protein standard stock solution, which contains preservatives, does not affect the subsequent detection, the protein standard stock solution -20 ℃ long-term storage. 2. The protein to be tested is dissolved in what kind of dilution solution, the protein standard should also be dissolved in what kind of dilution solution. Otherwise, the protein to be measured and the protein standard contains non-protein components are not consistent, which may lead to inaccurate measurement. 3. If there is no enzyme marker, you can also use an ordinary spectrophotometer but should be considered according to the minimum detection volume of the cuvette. The amount of modified Lowry Reagent working solution should be increased proportionally so that the total volume is not less than the minimum detection volume, and the number of samples and standards should also be enlarged proportionally. The number of samples that can be measured with each kit will be significantly reduced when using a spectrophotometer to determine protein concentration. 4. It is recommended that all samples (including standards) be averaged using triplicate wells.
Shelf-life	1 year
Storage	2-8℃
Notes	1. Prepare the protein standard -20℃ frozen storage, pay attention to prevent microbial contamination. Avoid repeated freezing and thawing. 2. Please use the reagents as soon as possible after unpacking.
Affirmation	This kit is intended for scientific research only and should not be used for clinical

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	diagnosis or other purposes.

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