

# Lowry Protein Quantification Kit

**Cat. No.** PQT-003    **Lot. No.** (See product label)

## SPECIFICATION

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| <b>Product Overview</b>       | 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. |
| <b>Specification</b>          | 250 T, 1,000 T                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Testing Methods</b>        | Enzyme labeler or spectrophotometer                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Measurement Range</b>      | 1-1,500 µg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applicable</b>             | Protein samples                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Applications</b>           | Protein quantification                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Instrument Preparation</b> | 1. Enzyme labeler or spectrophotometer<br>2. Pipette<br>3. Refrigerator<br>4. Icebox                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Reagent Preparation</b>    | Pure water                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Consumables</b>            | 1. Centrifuge tube                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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| <b>Preparation</b> | <ul style="list-style-type: none"> <li>2. Pipette tips</li> <li>3. Disposable gloves</li> <li>4. 96-well plate</li> </ul>                                                                                                                                                                                                                                                                                                        |
| <b>Usage</b>       | <ul style="list-style-type: none"> <li>1. When precipitation occurs in low temperatures or long-term storage, it can be stirred or incubated at 37°C to dissolve and should be discarded if bacterial contamination is found.</li> <li>2. Many interfering substances may reduce the color response.</li> <li>3. When using incubation, care should be taken to prevent water evaporation from affecting the results.</li> </ul> |
| <b>Shelf-life</b>  | 1 year                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>     | 2-8°C                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Notes</b>       | <ul style="list-style-type: none"> <li>1. Protein standards take care to prevent microbial contamination. Avoid repeated freezing and thawing.</li> <li>2. Protein standards can be dispensed and frozen as needed.</li> <li>3. Please use the reagents as soon as possible after unpacking.</li> </ul>                                                                                                                          |
| <b>Affirmation</b> | This kit is intended for scientific research only and should not be used for clinical diagnosis or other purposes.                                                                                                                                                                                                                                                                                                               |