



Lowry Protein Assay

The Lowry method includes two steps: the first step is that under alkaline conditions, protein reacts with copper to form a protein-copper complex; the second step is that this complex reduces the Folin reagent to produce a dark blue color, and the color depth is proportional to the protein content. The quantitative range is 5-500 µg/ml protein. The color development reaction of the Folin reagent is caused by tyrosine, tryptophan and cysteine, so if the sample contains phenols, citric acid and sulfhydryl compounds, they will interfere. In addition, different proteins have slightly different color development intensities due to different tyrosine and tryptophan contents.

The Lowry method is less susceptible to lipid interference and is suitable for samples with high lipid content. It can also tolerate considerable concentrations of detergents such as SDS.

The reagents supplied in the kit are sufficient to conduct 1000 assays with the microplate procedure and 100 assays with the tube procedure.

Catalog No.	501103
Size	1000 Assays
Product Category	Protein Detection
Storage/Stability	-20°C/1 year
Shipping	Gel Packs