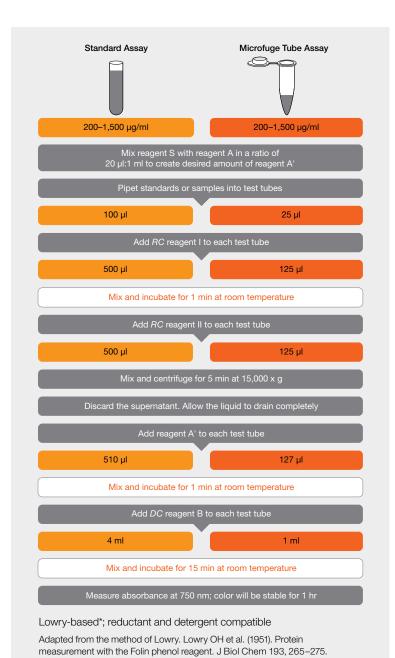


PROTEIN ASSAYS RC DC™ Protein Assay

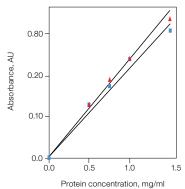
Quick Guide



Setting Up a Standard Curve

Determine protein concentration by plotting the absorbance vs. concentration of known standards. Use the resulting curve to determine the concentration of unknown proteins based on their absorbance.

Note: The best standard to use is a purified sample of your target protein. If this is not available, use Bio-Rad's bovine serum albumin or bovine γ -globulin to make your standard curve.



Standard curve generation using known standards. A typical standard curve for Lowry-based assays, including *RC DC* Protein Assays. Bovine serum albumin (\mathbf{n}); bovine γ -globulin (\mathbf{A}).

For Best Results

- Run a standard curve with each protein assay
- Run at least 3 replicates of all standards and samples
- Process the sample and standards the same way to ensure that differences in color intensity are due only to differences in protein concentration
- Make sure the sample and standard fall within the same concentration range



Reagent Compatibility

The following reagents were tested for their compatibility with the protein assay. Concentrations represent maximum concentrations for standard assay. \checkmark = compatible.

Reagent	Concentration
CHAPS	2%
Dithiothreitol (DTT)	0.1 M
EDTA	0.1 M
Imidazole	0.5 M
Laemmli buffer	✓
2-Mercaptoethanol	5%
Sodium hydroxide	2.5 M
TBP	0.002 M
Tris, pH 8	0.5 M
Triton X-100	2%
Tween 20	2%

Ordering Information

1702504

1702505

Catalog #	Description
5000121	RC DC Protein Assay Kit I, includes RC reagents package,
5000122	DC protein assay reagents package, bovine γ-globulin standard RC DC Protein Assay Kit II, includes RC reagents package,
	DC protein assay reagents package, bovine serum albumin standard
Microplate	Reader
1681130	iMark™ Microplate Absorbance Reader
2240096	Costar 96-Well Flat-Bottom EIA Plate, 100 plates
Spectropho	otometer
1702525	SmartSpec [™] Plus Spectrophotometer
1702510	trUView™ Cuvettes, pkg of 50
1702511	trUView Cuvettes, pkg of 100
2239950	Standard Disposable Polystyrene Cuvettes, 3.5 ml, pkg of 100
2239955	Semimicrovolume Disposable Polystyrene Cuvettes, 1.5 ml,
	pkg of 100
1702502	Standard Cuvette, 1-3.5 ml, quartz
1702503	Semimicrovolume Cuvette, 0.5-1.4 ml, guartz

Visit bio-rad.com/proteinassaykits for more information.

Microvolume Cuvette, 200-700 µl, quartz

Submicrovolume Cuvette, 80-150 µl, quartz

Costar is a trademark of Corning Incorporated. Triton is a trademark of Dow Chemical Company. Tween is a trademark of ICI Americas Inc.



Bio-Rad Laboratories, Inc.

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