Compatibility Table for Bradford Protein Assay Kit

The values listed below indicate the maximum concentrations of substances that can be added to samples without significant interference during testing via the standard Bradford assay protocol.

1. Buffer System

Substance	Compatible Concentration
ACES, pH 7.8	100 mM
N-Acetylglucosamine in PBS, pH 7.2	100 mM
Bicine, pH 8.4	100 mM
Bis-Tris, pH 6.5	100 mM
Calcium chloride in TBS, pH 7.2	10 mM
CellYtic B Reagent	undiluted, no interference
CHES, pH 9.0	100 mM
Cobalt chloride in TBS, pH 7.2	10 mM
EPPS, pH 8.0	100 mM
Ferric chloride in TBS, pH 7.2	10 mM
Glycine	100 mM
HEPES, pH 7.5	100 mM
Imidazole, pH 7.0	200 mM
MES (0.1 M), NaCl (0.9%), pH 4.7	undiluted
MES, pH 6.1	100 mM
MOPS, pH 7.2	100 mM
Nickel chloride in TBS, pH 7.2	10 mM
PBS; Phosphate (0.1 M), NaCl (0.15 M), pH 7.2	undiluted
PIPES, pH 6.8	100 mM
Sodium acetate, pH 4.8	180 mM
Sodium bicarbonate	0.1 M
Sodium citrate, pH 4.8 or pH 6.4	200 mM
Sodium Citrate (0.6 M), MOPS (0.1 M), pH 7.5	undiluted
Sodium phosphate	0.1 M
TBS; Tris (25 mM), NaCl (0.15 M), pH 7.6	undiluted
Tricine, pH 8.0	100 mM
Triethanolamine, pH 7.8	100 mM

Tris	2.0 M
Tris (25 mM), Glycine (192 mM), pH 8.0	undiluted
Tris (25 mM), Glycine (192 mM), SDS (0.1%), pH 8.3	1:2 dilution
Zinc chloride in TBS, pH 7.2	10 mM

2. Buffer Additive

Substance	Compatible Concentration
Ammonium sulfate	1.0 M
Aprotinin	10 mg/L
Asparagine	10 mM
Cesium bicarbonate	0.1 M
Glucose	1.0 M
Glycerol	10%
Guanidine·HCl	3.5 M
Hydrochloric Acid	0.1 M
Imidazole, pH 7.0	200 mM
Leupeptin	10 mg/L
Phenol Red	0.5 mg/mL
PMSF	1 mM
Sodium azide	0.5%
Sodium chloride	5.0 M
Sodium Hydroxide	0.1 M
Sodium orthovanadate in PBS	1 mM
Thimerosal	0.01%
Sucrose	10%
TLCK	0.1 mg/L
TPCK	0.1 mg/L
Urea	3.0 M

3. Chelating agent

Substance	Compatible Concentration
EDTA	100 mM
EGTA	2 mM
Sodium citrate, pH 4.8 or pH 6.4	200 mM

4. Detergent

Substance	Compatible Concentration
Brij-35	0.125%
Brij-52	0.031%
CHAPS	5%
CHAPSO	5%
Deoxycholic acid	0.050%
Nonidet P-40 (Igepal CA-630)	0.5%
N-Tetradecyl-N	0.125%
Octyl-β-glucoside	0.5%
Octyl-β-thioglucopyranoside	3%
SDS	0.125%
Span 20	0.5%
Triton X-100	0.125%
Triton X-114	0.125%
Triton X-305	0.5%
Triton X-405	0.5%
Tween 20	0.062%
Tween 60	0.1%
Tween 80	0.062%

5. Reducing & Thiol Containing Agent

Substance	**Compatible Concentration**
2-Mercaptoethanol	1.0 M
Ascorbic acid	50 mM
Cysteine	10 mM
Dithioerythritol (DTE)	1 mM
Dithiothreitol (DTT)	5 mM
Potassium thiocyanate	3.0 M

6. Solvent

Substance	**Compatible Concentration**
Acetone	10%
Acetonitrile	10%
DMF	10%
DMSO	10%
Ethanol	10%

Methanol	10%

Notes

- This list does not constitute a full compatibility chart. For actual quantification, it is recommended to prepare the target protein in pure water and buffer containing potential interfering substances separately, and determine the presence of interference by comparing absorbance readings.
- Any reagent that alters the pH of the reaction system or contains high concentrations of detergents will interfere with Bradford assay measurements.