

## **Compatibility Chart For Bradford Kit**

The concentration listed below is the maximum amount of material which can be present in the protein sample without causing interference in the standard protocol when 20 ul protein sample is used for Bradford assay.

### **Incompatible Substances /Amount Compatible**

#### **Buffer Systems**

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

#### **Buffer Additives**

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 3.0 M

**Detergents**

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 ®-glucoside 0.5%  
Octyl ®-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%

**Chelating agents**

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

**Reducing & Thiol Containing Agents**

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

**Solvents**

Acetone 10%  
Acetonitrile 10%  
DMF 10%  
DMSO 10%  
Ethanol 10%  
Methanol 10%

**Note:** This is not a complete compatibility chart. There are many substances that can affect different proteins in different ways. One may assay the protein of interest in deionized water alone, then in buffer with possible interfering substances. Comparison of the readings will indicate if an interference exists.

**Note:** Reagents that change the pH of the assay or contains high levels of detergents will interfere with the Bradford assay.