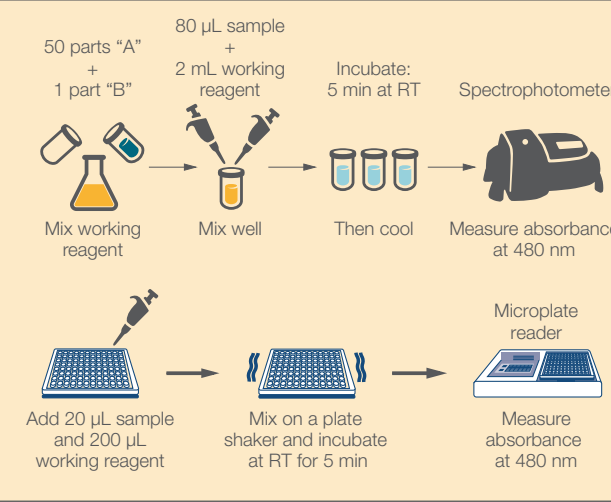
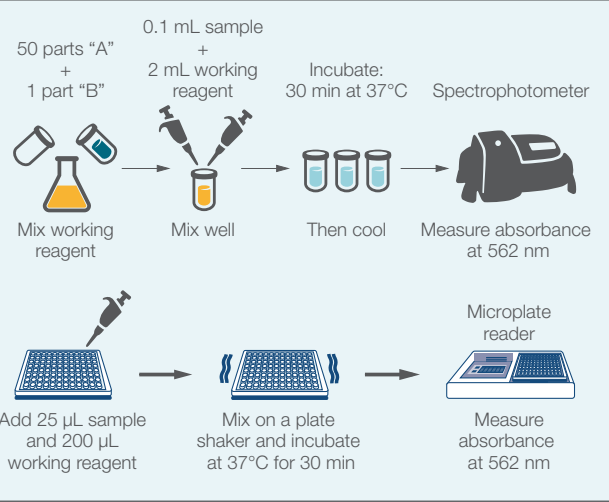
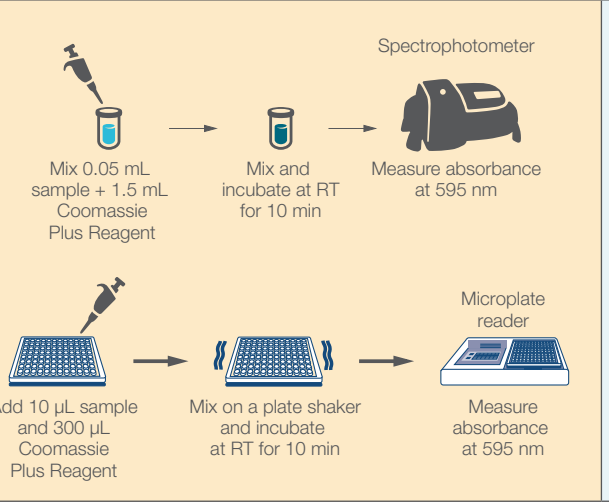
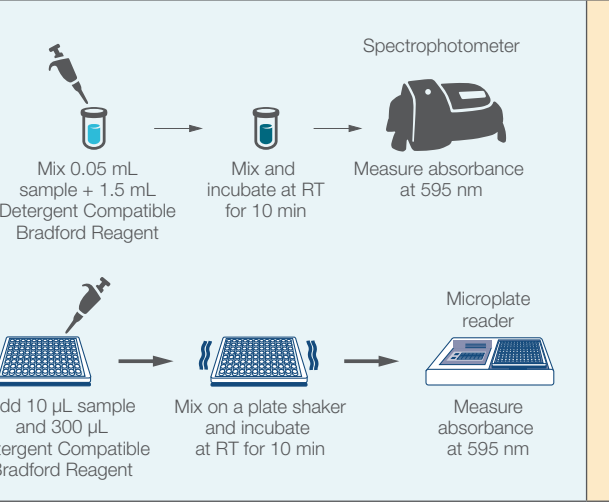
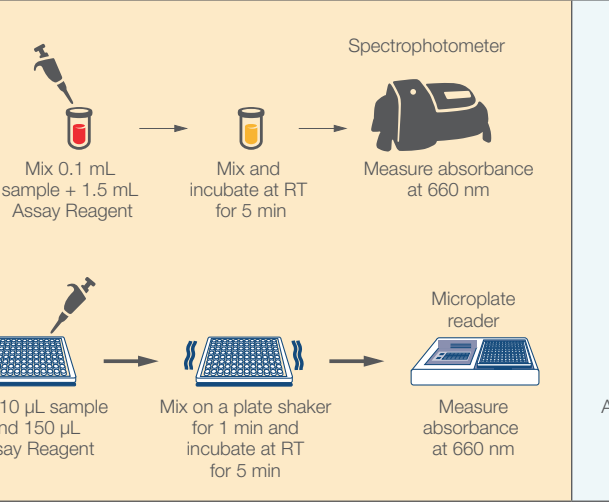
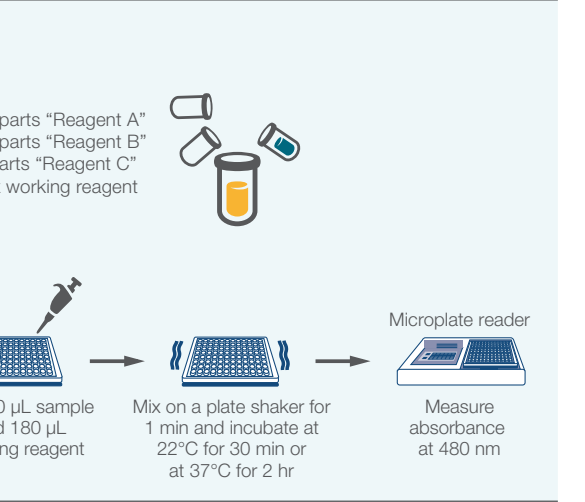
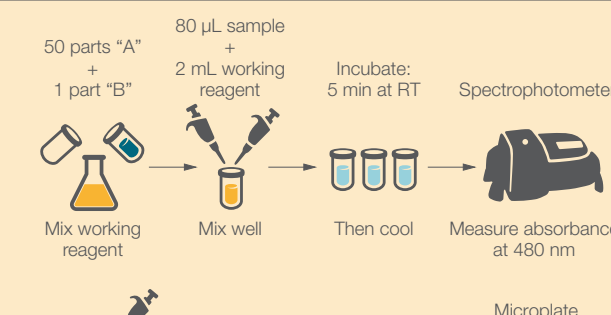
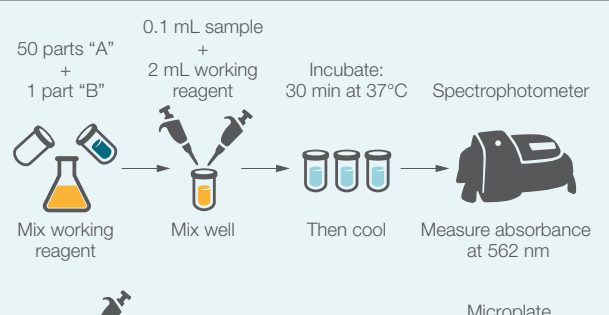
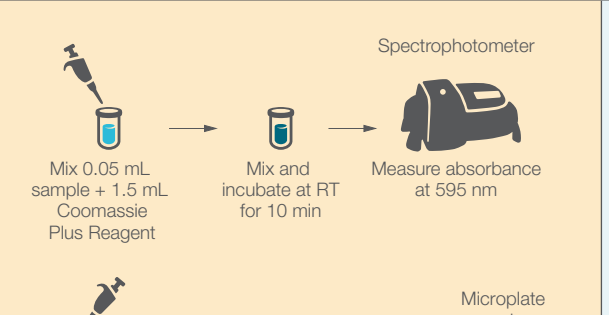
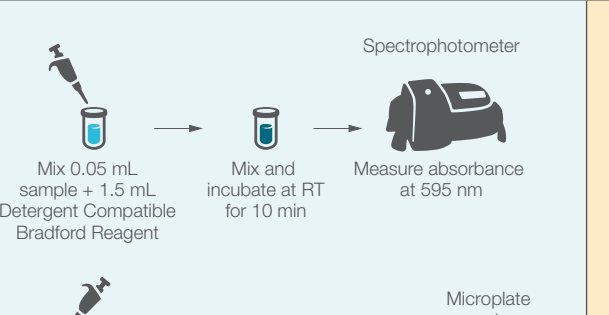
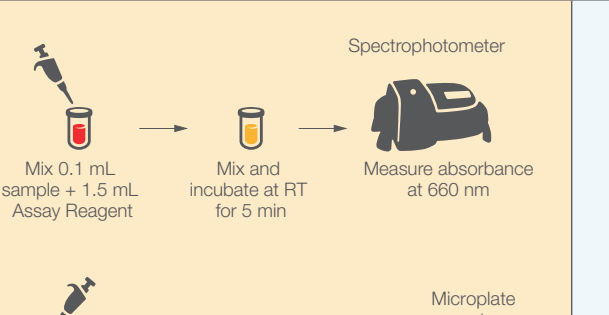

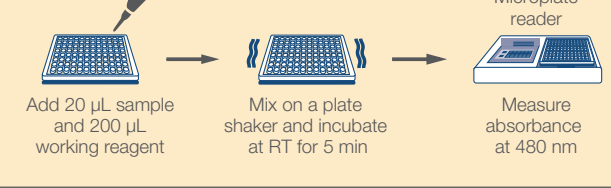
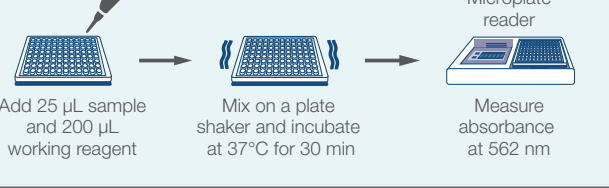
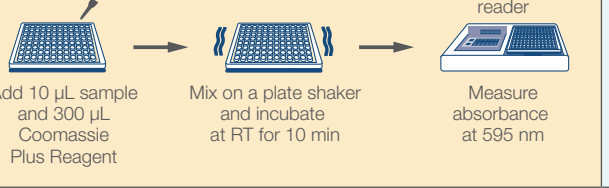
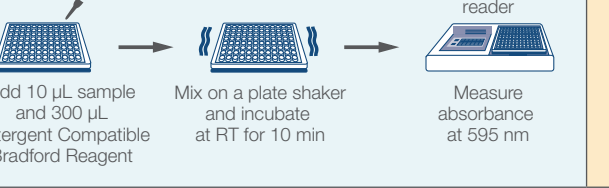
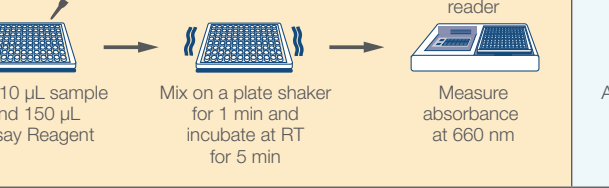
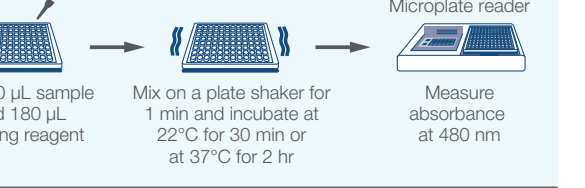
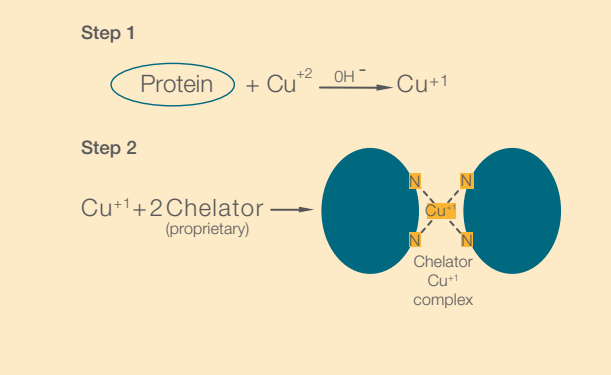
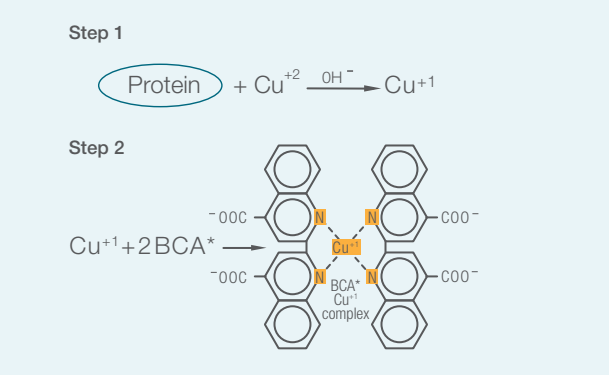
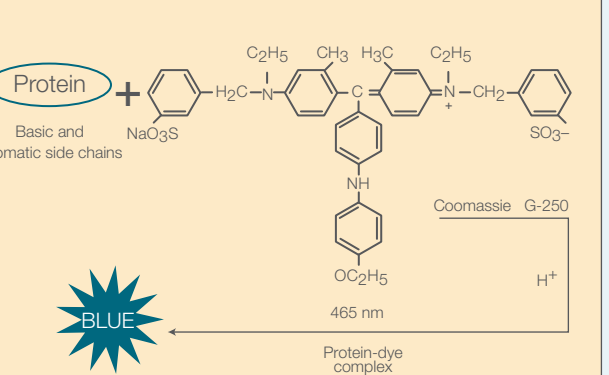
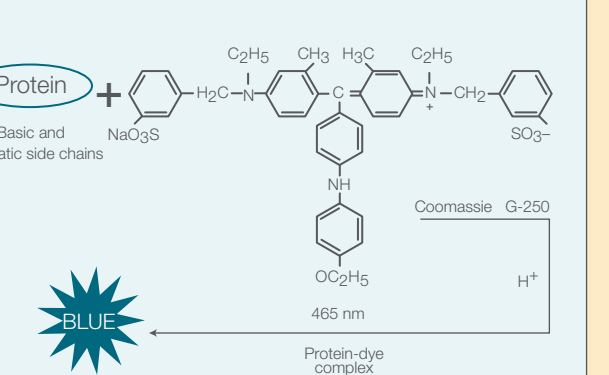
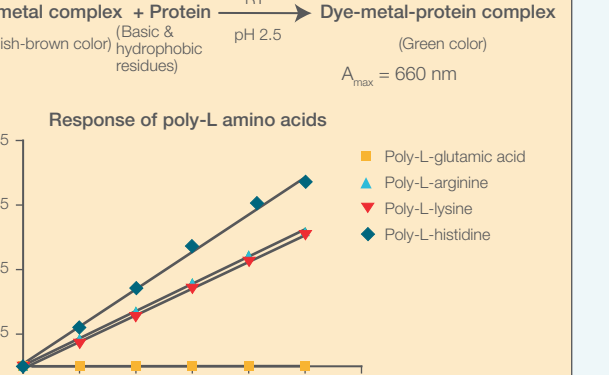
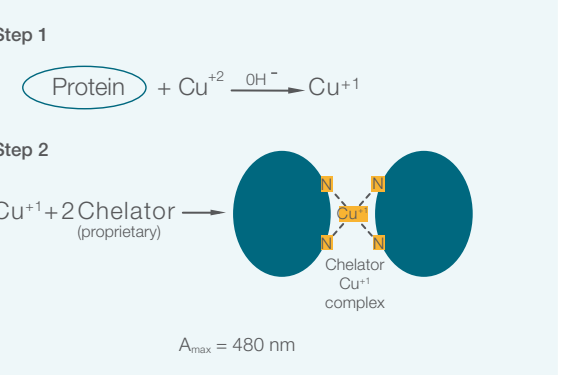
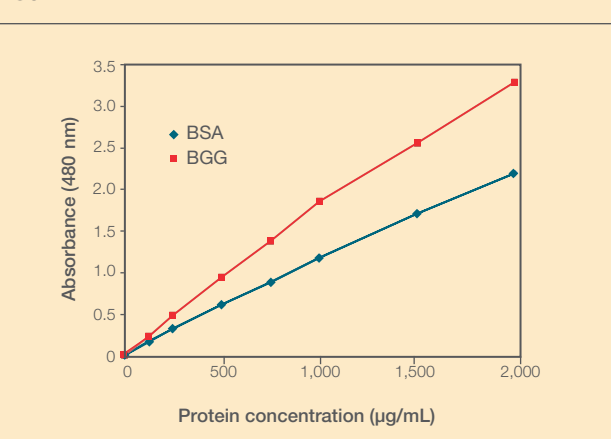
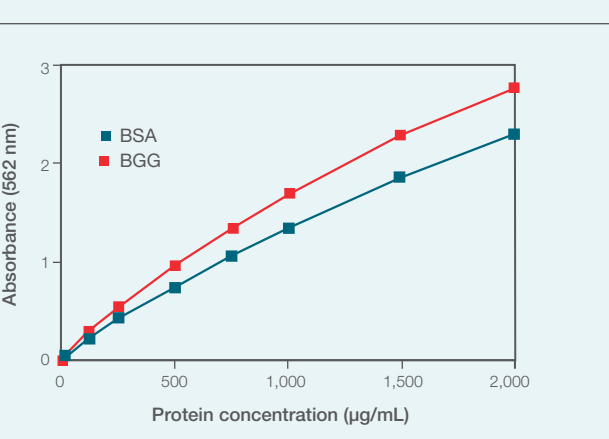
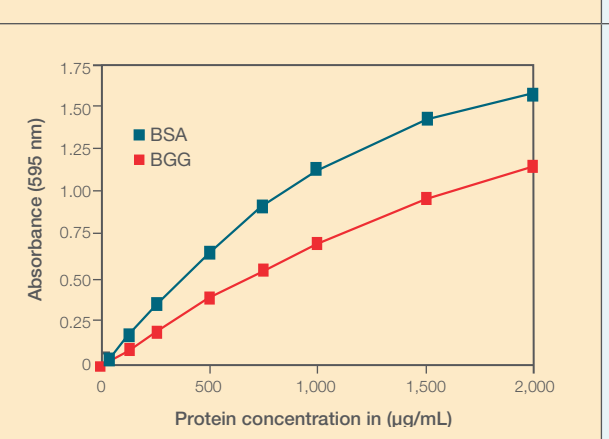
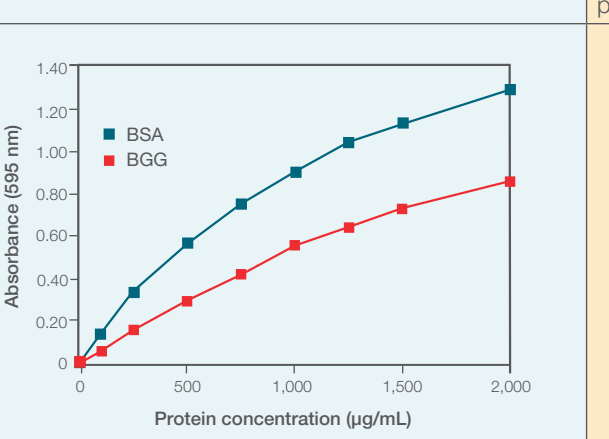
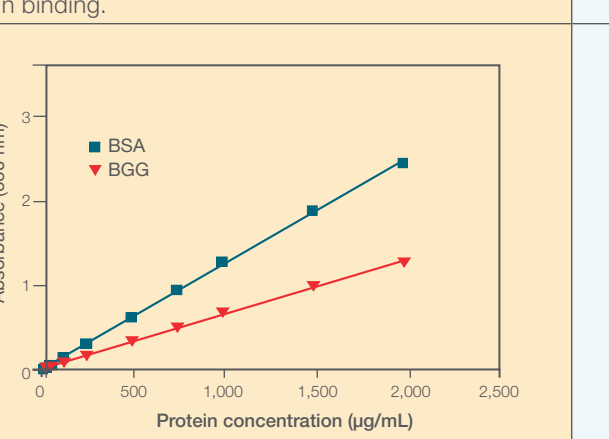
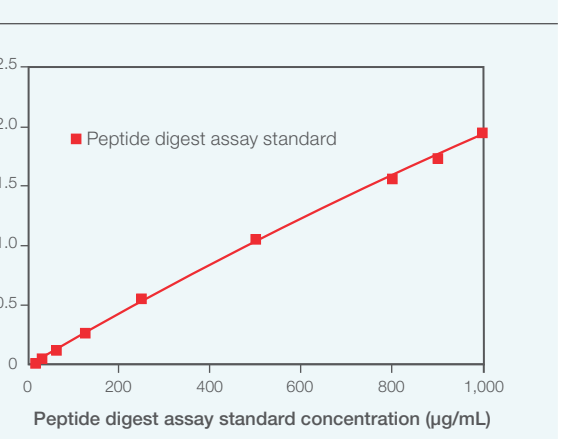


Pierce protein and peptide assay selection guide

Thermo Scientific™ Pierce™ assay kit	Rapid Gold BCA Protein Assay Kit	BCA Protein Assay Kit	Coomassie Plus (Bradford) Assay Kit	Pierce Detergent Compatible Bradford Assay Kit	660 nm Protein Assay Reagent	Quantitative Colorimetric Peptide Assay																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Advantages <ul style="list-style-type: none"> Faster than the traditional BCA assay Eliminates need for incubation—results ready to read after 5 minutes at room temperature Excellent uniformity—exhibits protein-to-protein variation similar to traditional BCA Protein Assay, and less variation than dye-binding protein assay methods such as Bradford, making it an ideal choice for consistency across complex protein mixtures Compatible—unaffected by typical concentrations of most ionic and nonionic detergents 	<ul style="list-style-type: none"> Compatible with most ionic and nonionic detergents (SDS, Triton™ X-100, etc.) Excellent uniformity—less protein-to-protein variability than the Bradford assay Flexible protocols—incubating for different lengths of time and at different temperatures allows for extended dynamic range 	<ul style="list-style-type: none"> Lowest protein-to-protein variability of any standard Coomassie dye-based (Bradford) assay Faster than the traditional BCA or Lowry protein assay Ready to use—does not require prefiltering or dilution Compatible with reducing agents (BME, DTT) Reaches a stable endpoint Superior linear response ranging from 125 to 1,000 µg/mL for BSA Best linearity of color response of all Coomassie dye-based protein assays 	<ul style="list-style-type: none"> Compatible with reducing agents and detergents Ready to use—does not require prefiltering or dilution Faster than the traditional BCA assay Reaches a stable endpoint Compatible with samples both with and without detergent Standards can be used to generate the curve without addition of detergent 	<ul style="list-style-type: none"> Ideal for measuring protein concentration in samples containing detergents and/or reducing agents Used for quick estimation of protein concentration with only 10 µL of sample Measures proteins of ≥3,000 Da 	<ul style="list-style-type: none"> Compatible with reducing agents, chelating agents, and detergents Faster and easier to perform than BCA or Bradford Coomassie assays Excellent linearity of color development within the detection range Reaches a stable endpoint Compatible with Laemmli sample buffer containing bromophenol blue 	<ul style="list-style-type: none"> Designed specifically for peptide quantitation Contains a validated peptide digest assay standard Compatible with many common reagents, including MS sample preparation reagents Easy mix-and-read format Recommended for peptide mixtures 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Detection range 20–2,000 µg/mL	20–2,000 µg/mL or 5–250 µg/mL	20–2,000 µg/mL or 5–250 µg/mL	100–1,500 µg/mL or 1–25 µg/mL	100–1,500 µg/mL or 2–25 µg/mL	25–2,000 µg/mL	25–1,000 µg/mL peptide																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Applications <ul style="list-style-type: none"> Fast, efficient throughput for accurate protein concentration determination Ideal for measuring detergent-solubilized membrane proteins Can be used to measure protein on solid surfaces such as affinity supports, plastic microplates, and membranes 	<ul style="list-style-type: none"> Fast, efficient throughput for accurate protein concentration determination Ideal for measuring detergent-solubilized membrane proteins Can be used to measure protein on solid surfaces such as affinity supports, plastic microplates, and membranes 	<ul style="list-style-type: none"> Ideal for measuring detergent-solubilized membrane proteins Used to measure protein in the presence of reducing agents Can be used to measure protein on solid surfaces such as affinity supports, plastic microplates, and membranes Measures proteins of ≥3,000 Da 	<ul style="list-style-type: none"> Ideal for measuring protein concentration in samples containing detergents and/or reducing agents Used for quick estimation of protein concentration with only 10 µL of sample Measures proteins of ≥3,000 Da 	<ul style="list-style-type: none"> Ideal for measuring total protein concentration in samples containing detergents and/or reducing agents Used for quick yet accurate estimation of protein Measures proteins of ≥2,500 Da 	<ul style="list-style-type: none"> Normalizing sample concentrations for quantitative downstream applications Normalizing sample loading volumes for LC/MS applications Measuring recovery after peptide clean-up procedures 	<ul style="list-style-type: none"> Normalizing sample concentrations for quantitative downstream applications Normalizing sample loading volumes for LC/MS applications Measuring recovery after peptide clean-up procedures 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Precautions <ul style="list-style-type: none"> Not compatible with reducing agents and EDTA When performing the test tube method on more than 15 samples, consider a stopping step using 1 N HCl 	<ul style="list-style-type: none"> Not compatible with reducing agents such as DTT, 2-mercaptoethanol, glucose, or ascorbic acid Measure samples within 10 minutes after incubation to avoid effects of drifting color 	<ul style="list-style-type: none"> Interference from ionic and nonionic detergents Greater protein-to-protein variability than the BCA or Lowry assays 	<ul style="list-style-type: none"> Greater protein-to-protein variability than the BCA assay and similar to the Bradford (Coomassie) assay 	<ul style="list-style-type: none"> Use reagent with Thermo Scientific™ Ionic Detergent Compatibility Reagent with samples containing ionic detergents like SDS Greater protein-to-protein variability than the BCA assay 	<ul style="list-style-type: none"> Not recommended for synthetic peptides because the assay is affected by peptide amino acid content Not compatible with reducing agents and EDTA 	<ul style="list-style-type: none"> Not recommended for synthetic peptides because the assay is affected by peptide amino acid content Not compatible with reducing agents and EDTA 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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<p>Uses the Biuret reaction for the reduction of copper by the peptide backbone and a novel chelator similar to BCA to produce a colored response that can be read at 480 nm.</p>	<p>Based on the reduction of Cu²⁺ to Cu⁺ by proteins at an alkaline pH. Two BCA molecules chelate the Cu⁺ ion to form a tetradentate purple complex.</p>	<p>Based on the direct binding of the Coomassie dye to protein tertiary structure and specific amino acids. The dye changes color from reddish-brown to blue upon protein binding.</p>	<p>Based on the direct binding of the Coomassie dye to protein tertiary structure and specific amino acids. The dye changes color from reddish-brown to blue upon protein binding.</p>	<p>Based on binding of a proprietary dye-metal complex to proteins at an acidic pH that causes a shift in the absorption maximum of the dye to 660 nm. The dye changes color from reddish-brown to green upon protein binding.</p>	<p>Uses the Biuret reaction for the reduction of copper by the peptide backbone and a novel chelator similar to BCA to produce a colored response that can be read at 480 nm.</p>	<p>Uses the Biuret reaction for the reduction of copper by the peptide backbone and a novel chelator similar to BCA to produce a colored response that can be read at 480 nm.</p>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Interfering substances (maximum concentration)	<table border="1"> <tr><td>2D sample buffer*</td><td>NA</td><td>M-PER Reagent</td><td>Undiluted</td></tr> <tr><td>2-Mercaptoethanol</td><td>0.01%</td><td>N-Acetylglucosamine</td><td>10 mM</td></tr> <tr><td>ACES, pH 7.8</td><td>25 mM</td><td>Na acetate, pH 4.8</td><td>200 mM</td></tr> <tr><td>Acetone</td><td>10%</td><td>Na acetate, pH 4.8</td><td>0.2%</td></tr> <tr><td>Acetonitrile</td><td>10%</td><td>Na bicarbonate</td><td>100 mM</td></tr> <tr><td>Ammonium sulfate</td><td>15 M</td><td>Na carbonate</td><td>1.2</td></tr> <tr><td>Aprotinin</td><td>10 mg/mL</td><td>Na carbonate, pH 9.4*</td><td>Undiluted</td></tr> <tr><td>Ascorbic acid</td><td>0</td><td>Na chloride</td><td>1 M</td></tr> <tr><td>Asparagine</td><td>10 mM</td><td>Na citrate, pH 4.8</td><td>200 mM</td></tr> <tr><td>Bicine</td><td>20 mM</td><td>Na citrate-carbonate</td><td>1.8</td></tr> <tr><td>Bis-Tris, pH 6.5</td><td>33 mM</td><td>Na citrate-carbonate, pH 9*</td><td>1.8</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-MOPS, pH 7.5*</td><td>1.8</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na deoxycholate (DOC), 5%</td><td>Undiluted</td></tr> <tr><td>B-PER Reagent II</td><td>Undiluted</td><td>Na hydroxide (NaOH)</td><td>100 mM</td></tr> <tr><td>B-PER Reagent II</td><td>Undiluted</td><td>Na phosphate</td><td>100 mM</td></tr> <tr><td>B-PER Reagent PBS</td><td>NA</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Brij-35</td><td>5%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Brij-56</td><td>1%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Brij-58</td><td>1%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Bromophenol blue (in 50 mM NaOH)</td><td>0</td><td>Nickel chloride (in TBS, pH 7.2)</td><td>10 mM</td></tr> <tr><td>Calcium chloride (in TBS, pH 7.2)</td><td>10 mM</td><td>NP-40</td><td>5%</td></tr> <tr><td>CaCl₂</td><td>10 mM</td><td>NP-40</td><td>5%</td></tr> <tr><td>Cesium bicarbonate</td><td>100 mM</td><td>Octyl beta-glucoside</td><td>5%</td></tr> <tr><td>Cetyltrimethylammonium chloride</td><td>NA</td><td>Octylthioglucoside</td><td>3%</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Na-orthovanadate</td><td>1 mM</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Na-orthovanadate (in PBS, pH 7.2)</td><td>5%</td></tr> <tr><td>CHES</td><td>100 mM</td><td>Phenol red</td><td>0</td></tr> <tr><td>CHES</td><td>100 mM</td><td>Phenol red</td><td>0</td></tr> <tr><td>CoCl₂</td><td>0.8 mM</td><td>Phosphate-buffered saline (PBS)*</td><td>Undiluted</td></tr> <tr><td>CoCl₂</td><td>0.8 mM</td><td>PIPES, pH 6.8</td><td>100 mM</td></tr> <tr><td>CTAB</td><td>NA</td><td>PIPES, pH 6.8</td><td>100 mM</td></tr> <tr><td>Cysteine</td><td>0</td><td>PMSF in isopropanol</td><td>1 mM</td></tr> <tr><td>Dithioerythritol (DTE)</td><td>1 mM</td><td>Potassium thiocyanate</td><td>3 M</td></tr> <tr><td>Dithioerythritol (DTE)</td><td>1 mM</td><td>P-ER Reagent</td><td>0</td></tr> <tr><td>DMF</td><td>10%</td><td>RIPA buffer**</td><td>Undiluted</td></tr> <tr><td>DMSO</td><td>10%</td><td>Span 20</td><td>0.5%</td></tr> <tr><td>DTAB</td><td>10 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EDTA</td><td>10 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EGTA</td><td>10 mM</td><td>TCEP</td><td>0</td></tr> <tr><td>EPHES, pH 8.0</td><td>100 mM</td><td>Thimerosal</td><td>0.01%</td></tr> <tr><td>Ethanol</td><td>10%</td><td>Thiourea</td><td>NA</td></tr> <tr><td>Ferric chloride (in TBS, pH 7.2)</td><td>10 mM</td><td>TLCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>TPCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>T-ER Reagent</td><td>Undiluted</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>Tricine, pH 8.0</td><td>100 mM</td></tr> <tr><td>Glycine-HCl, pH 2.8</td><td>100 mM</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>Guadine-HCl</td><td>4 M</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>HEPES, pH 7.5</td><td>100 mM</td><td>Tris-buffered saline (TBS)*</td><td>Undiluted</td></tr> <tr><td>Hydrides (Na, BH₄ or NaCNBH₃)</td><td>0</td><td>Tris-glycine, pH 8.0*</td><td>Undiluted</td></tr> <tr><td>Hydrochloric acid</td><td>100 mM</td><td>Tris-glycine, pH 8.0*</td><td>Undiluted</td></tr> <tr><td>Imidazole, pH 7.0</td><td>200 mM</td><td>Tris-HCl, pH 8.0</td><td>2 M</td></tr> <tr><td>I-PER Reagent</td><td>Undiluted</td><td>Tris-HEPES-SDS*</td><td>NA</td></tr> <tr><td>Laemmli SDS sample buffer*</td><td>0</td><td>Triton X-100</td><td>0.062%</td></tr> <tr><td>Leupeptin</td><td>10 mg/mL</td><td>Triton X-114</td><td>5%</td></tr> <tr><td>Mannitol</td><td>NA</td><td>Triton X-305</td><td>1%</td></tr> <tr><td>Melibiose</td><td>0</td><td>Tween 20</td><td>5%</td></tr> <tr><td>Mem-PER Reagent</td><td>Undiluted</td><td>Tween 60</td><td>5%</td></tr> <tr><td>MES-buffered saline, pH 4.7</td><td>Undiluted</td><td>Urea</td><td>3 M</td></tr> <tr><td>MES, pH 6.1</td><td>100 mM</td><td>Y-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Methanol</td><td>10%</td><td>Y-PER Plus Reagent</td><td>Undiluted</td></tr> <tr><td>Magnesium chloride</td><td>NA</td><td>Zinc chloride (in TBS, pH 7.2)</td><td>10 mM</td></tr> <tr><td>Modified Dulbecco's PBS*</td><td>Undiluted</td><td>Zwittergent 3-14</td><td>0.025%</td></tr> <tr><td>MOPS, pH 7.2</td><td>100 mM</td><td></td><td></td></tr> </table>	2D sample buffer*	NA	M-PER Reagent	Undiluted	2-Mercaptoethanol	0.01%	N-Acetylglucosamine	10 mM	ACES, pH 7.8	25 mM	Na acetate, pH 4.8	200 mM	Acetone	10%	Na acetate, pH 4.8	0.2%	Acetonitrile	10%	Na bicarbonate	100 mM	Ammonium sulfate	15 M	Na carbonate	1.2	Aprotinin	10 mg/mL	Na carbonate, pH 9.4*	Undiluted	Ascorbic acid	0	Na chloride	1 M	Asparagine	10 mM	Na citrate, pH 4.8	200 mM	Bicine	20 mM	Na citrate-carbonate	1.8	Bis-Tris, pH 6.5	33 mM	Na citrate-carbonate, pH 9*	1.8	Borate (50 mM), Undiluted	0	Na citrate-MOPS, pH 7.5*	1.8	Borate (50 mM), Undiluted	0	Na deoxycholate (DOC), 5%	Undiluted	B-PER Reagent II	Undiluted	Na hydroxide (NaOH)	100 mM	B-PER Reagent II	Undiluted	Na phosphate	100 mM	B-PER Reagent PBS	NA	NE-PER Reagent	Undiluted	Brij-35	5%	NE-PER Reagent	Undiluted	Brij-56	1%	NE-PER Reagent	Undiluted	Brij-58	1%	NE-PER Reagent	Undiluted	Bromophenol blue (in 50 mM NaOH)	0	Nickel chloride (in TBS, pH 7.2)	10 mM	Calcium chloride (in TBS, pH 7.2)	10 mM	NP-40	5%	CaCl ₂	10 mM	NP-40	5%	Cesium bicarbonate	100 mM	Octyl beta-glucoside	5%	Cetyltrimethylammonium chloride	NA	Octylthioglucoside	3%	CHAPS	5%	Na-orthovanadate	1 mM	CHAPS	5%	Na-orthovanadate (in PBS, pH 7.2)	5%	CHES	100 mM	Phenol red	0	CHES	100 mM	Phenol red	0	CoCl ₂	0.8 mM	Phosphate-buffered saline (PBS)*	Undiluted	CoCl ₂	0.8 mM	PIPES, pH 6.8	100 mM	CTAB	NA	PIPES, pH 6.8	100 mM	Cysteine	0	PMSF in isopropanol	1 mM	Dithioerythritol (DTE)	1 mM	Potassium thiocyanate	3 M	Dithioerythritol (DTE)	1 mM	P-ER Reagent	0	DMF	10%	RIPA buffer**	Undiluted	DMSO	10%	Span 20	0.5%	DTAB	10 mM	Sucrose	10%	EDTA	10 mM	Sucrose	10%	EGTA	10 mM	TCEP	0	EPHES, pH 8.0	100 mM	Thimerosal	0.01%	Ethanol	10%	Thiourea	NA	Ferric chloride (in TBS, pH 7.2)	10 mM	TLCK	0.1 mg/mL	Glycerol (fresh)	10%	TPCK	0.1 mg/mL	Glycerol (fresh)	10%	T-ER Reagent	Undiluted	Glycerol (fresh)	10%	Tricine, pH 8.0	100 mM	Glycine-HCl, pH 2.8	100 mM	Trietanolamine, pH 7.8	100 mM	Guadine-HCl	4 M	Trietanolamine, pH 7.8	100 mM	HEPES, pH 7.5	100 mM	Tris-buffered saline (TBS)*	Undiluted	Hydrides (Na, BH ₄ or NaCNBH ₃)	0	Tris-glycine, pH 8.0*	Undiluted	Hydrochloric acid	100 mM	Tris-glycine, pH 8.0*	Undiluted	Imidazole, pH 7.0	200 mM	Tris-HCl, pH 8.0	2 M	I-PER Reagent	Undiluted	Tris-HEPES-SDS*	NA	Laemmli SDS sample buffer*	0	Triton X-100	0.062%	Leupeptin	10 mg/mL	Triton X-114	5%	Mannitol	NA	Triton X-305	1%	Melibiose	0	Tween 20	5%	Mem-PER Reagent	Undiluted	Tween 60	5%	MES-buffered saline, pH 4.7	Undiluted	Urea	3 M	MES, pH 6.1	100 mM	Y-PER Reagent	Undiluted	Methanol	10%	Y-PER Plus Reagent	Undiluted	Magnesium chloride	NA	Zinc chloride (in TBS, pH 7.2)	10 mM	Modified Dulbecco's PBS*	Undiluted	Zwittergent 3-14	0.025%	MOPS, pH 7.2	100 mM			<table border="1"> <tr><td>2D sample buffer*</td><td>NA</td><td>MOPS, pH 7.2</td><td>100 mM</td></tr> <tr><td>2-Mercaptoethanol</td><td>0.01%</td><td>M-PER Reagent</td><td>Undiluted</td></tr> <tr><td>ACES, pH 7.8</td><td>25 mM</td><td>N-Acetylglucosamine</td><td>10 mM</td></tr> <tr><td>Acetone</td><td>10%</td><td>Na acetate, pH 4.8</td><td>200 mM</td></tr> <tr><td>Acetonitrile</td><td>10%</td><td>Na acetate, pH 4.8</td><td>180 mM</td></tr> <tr><td>Ammonium sulfate</td><td>15 M</td><td>Na acetate</td><td>0.5%</td></tr> <tr><td>Aprotinin</td><td>10 mg/mL</td><td>Na bicarbonate</td><td>100 mM</td></tr> <tr><td>Ascorbic acid</td><td>50 mM</td><td>Na carbonate</td><td>Undiluted</td></tr> <tr><td>Asparagine</td><td>10 mM</td><td>Na carbonate, pH 9.4*</td><td>Undiluted</td></tr> <tr><td>Bicine</td><td>100 mM</td><td>Na chloride</td><td>5 M</td></tr> <tr><td>Bis-Tris, pH 6.5</td><td>100 mM</td><td>Na citrate, pH 4.8</td><td>200 mM</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-carbonate</td><td>1.8</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-carbonate, pH 9*</td><td>1.8</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-MOPS, pH 7.5*</td><td>1.8</td></tr> <tr><td>B-PER Reagent II</td><td>1.2</td><td>Na deoxycholate (DOC)</td><td>0.4%</td></tr> <tr><td>B-PER Reagent II</td><td>1.4</td><td>Na hydroxide (NaOH)</td><td>100 mM</td></tr> <tr><td>B-PER Reagent PBS</td><td>NA</td><td>Na phosphate</td><td>100 mM</td></tr> <tr><td>Brij-35</td><td>0.062%</td><td>NE-PER Reagent (CER)</td><td>1.4</td></tr> <tr><td>Brij-56</td><td>0.031%</td><td>NE-PER Reagent (CER)</td><td>1.4</td></tr> <tr><td>Brij-58</td><td>0.016%</td><td>NE-PER Reagent (CER)</td><td>1.4</td></tr> <tr><td>Bromophenol blue (in 50 mM NaOH)</td><td>0</td><td>Nickel chloride (in TBS, pH 7.2)</td><td>10 mM</td></tr> <tr><td>Calcium chloride (in TBS, pH 7.2)</td><td>10 mM</td><td>NP-40</td><td>0.5%</td></tr> <tr><td>CaCl₂</td><td>10 mM</td><td>NP-40</td><td>0.5%</td></tr> <tr><td>Cesium bicarbonate</td><td>100 mM</td><td>Octyl beta-glucoside</td><td>0.5%</td></tr> <tr><td>Cetyltrimethylammonium chloride</td><td>NA</td><td>Octylthioglucoside</td><td>3%</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Na-orthovanadate</td><td>1 mM</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Na-orthovanadate (in PBS, pH 7.2)</td><td>5%</td></tr> <tr><td>CHES</td><td>100 mM</td><td>Phenol red</td><td>0</td></tr> <tr><td>CHES</td><td>100 mM</td><td>Phenol red</td><td>0</td></tr> <tr><td>CoCl₂</td><td>0.8 mM</td><td>Phosphate-buffered saline (PBS)*</td><td>Undiluted</td></tr> <tr><td>CoCl₂</td><td>0.8 mM</td><td>PIPES, pH 6.8</td><td>100 mM</td></tr> <tr><td>CTAB</td><td>NA</td><td>PIPES, pH 6.8</td><td>100 mM</td></tr> <tr><td>Cysteine</td><td>0</td><td>PMSF in isopropanol</td><td>1 mM</td></tr> <tr><td>Dithioerythritol (DTE)</td><td>1 mM</td><td>Potassium thiocyanate</td><td>3 M</td></tr> <tr><td>Dithioerythritol (DTE)</td><td>1 mM</td><td>P-ER Reagent</td><td>0</td></tr> <tr><td>DMF</td><td>10%</td><td>RIPA buffer**</td><td>1.40</td></tr> <tr><td>DMSO</td><td>10%</td><td>Span 20</td><td>0.5%</td></tr> <tr><td>DTAB</td><td>10 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EDTA</td><td>10 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EGTA</td><td>10 mM</td><td>TCEP</td><td>0</td></tr> <tr><td>EPHES, pH 8.0</td><td>100 mM</td><td>Thimerosal</td><td>0.01%</td></tr> <tr><td>Ethanol</td><td>10%</td><td>Thiourea</td><td>NA</td></tr> <tr><td>Ferric chloride (in TBS, pH 7.2)</td><td>10 mM</td><td>TLCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>TPCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>T-ER Reagent</td><td>Undiluted</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>Tricine, pH 8.0</td><td>100 mM</td></tr> <tr><td>Glycine-HCl, pH 2.8</td><td>100 mM</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>Guadine-HCl</td><td>4 M</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>HEPES, pH 7.5</td><td>100 mM</td><td>Tris-buffered saline (TBS)*</td><td>Undiluted</td></tr> <tr><td>Hydrides (Na, BH₄ or NaCNBH₃)</td><td>0</td><td>Tris-glycine, pH 8.0*</td><td>Undiluted</td></tr> <tr><td>Hydrochloric acid</td><td>100 mM</td><td>Tris-glycine, pH 8.0*</td><td>Undiluted</td></tr> <tr><td>Imidazole, pH 7.0</td><td>200 mM</td><td>Tris-HCl, pH 8.0</td><td>2 M</td></tr> <tr><td>I-PER Reagent</td><td>Undiluted</td><td>Tris-HEPES-SDS*</td><td>NA</td></tr> <tr><td>Laemmli SDS sample buffer*</td><td>0</td><td>Triton X-100</td><td>0.062%</td></tr> <tr><td>Leupeptin</td><td>10 mg/mL</td><td>Triton X-114</td><td>5%</td></tr> <tr><td>Mannitol</td><td>NA</td><td>Triton X-305</td><td>1%</td></tr> <tr><td>Melibiose</td><td>0</td><td>Tween 20</td><td>5%</td></tr> <tr><td>Mem-PER Reagent</td><td>Undiluted</td><td>Tween 60</td><td>5%</td></tr> <tr><td>MES-buffered saline, pH 4.7</td><td>Undiluted</td><td>Urea</td><td>3 M</td></tr> <tr><td>MES, pH 6.1</td><td>100 mM</td><td>Y-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Methanol</td><td>10%</td><td>Y-PER Plus Reagent</td><td>Undiluted</td></tr> <tr><td>Magnesium chloride</td><td>NA</td><td>Zinc chloride (in TBS, pH 7.2)</td><td>10 mM</td></tr> <tr><td>Modified Dulbecco's PBS*</td><td>Undiluted</td><td>Zwittergent 3-14</td><td>0.025%</td></tr> <tr><td>MOPS, pH 7.2</td><td>100 mM</td><td></td><td></td></tr> </table>	2D sample buffer*	NA	MOPS, pH 7.2	100 mM	2-Mercaptoethanol	0.01%	M-PER Reagent	Undiluted	ACES, pH 7.8	25 mM	N-Acetylglucosamine	10 mM	Acetone	10%	Na acetate, pH 4.8	200 mM	Acetonitrile	10%	Na acetate, pH 4.8	180 mM	Ammonium sulfate	15 M	Na acetate	0.5%	Aprotinin	10 mg/mL	Na bicarbonate	100 mM	Ascorbic acid	50 mM	Na carbonate	Undiluted	Asparagine	10 mM	Na carbonate, pH 9.4*	Undiluted	Bicine	100 mM	Na chloride	5 M	Bis-Tris, pH 6.5	100 mM	Na citrate, pH 4.8	200 mM	Borate (50 mM), Undiluted	0	Na citrate-carbonate	1.8	Borate (50 mM), Undiluted	0	Na citrate-carbonate, pH 9*	1.8	Borate (50 mM), Undiluted	0	Na citrate-MOPS, pH 7.5*	1.8	B-PER Reagent II	1.2	Na deoxycholate (DOC)	0.4%	B-PER Reagent II	1.4	Na hydroxide (NaOH)	100 mM	B-PER Reagent PBS	NA	Na phosphate	100 mM	Brij-35	0.062%	NE-PER Reagent (CER)	1.4	Brij-56	0.031%	NE-PER Reagent (CER)	1.4	Brij-58	0.016%	NE-PER Reagent (CER)	1.4	Bromophenol blue (in 50 mM NaOH)	0	Nickel chloride (in TBS, pH 7.2)	10 mM	Calcium chloride (in TBS, pH 7.2)	10 mM	NP-40	0.5%	CaCl ₂	10 mM	NP-40	0.5%	Cesium bicarbonate	100 mM	Octyl beta-glucoside	0.5%	Cetyltrimethylammonium chloride	NA	Octylthioglucoside	3%	CHAPS	5%	Na-orthovanadate	1 mM	CHAPS	5%	Na-orthovanadate (in PBS, pH 7.2)	5%	CHES	100 mM	Phenol red	0	CHES	100 mM	Phenol red	0	CoCl ₂	0.8 mM	Phosphate-buffered saline (PBS)*	Undiluted	CoCl ₂	0.8 mM	PIPES, pH 6.8	100 mM	CTAB	NA	PIPES, pH 6.8	100 mM	Cysteine	0	PMSF in isopropanol	1 mM	Dithioerythritol (DTE)	1 mM	Potassium thiocyanate	3 M	Dithioerythritol (DTE)	1 mM	P-ER Reagent	0	DMF	10%	RIPA buffer**	1.40	DMSO	10%	Span 20	0.5%	DTAB	10 mM	Sucrose	10%	EDTA	10 mM	Sucrose	10%	EGTA	10 mM	TCEP	0	EPHES, pH 8.0	100 mM	Thimerosal	0.01%	Ethanol	10%	Thiourea	NA	Ferric chloride (in TBS, pH 7.2)	10 mM	TLCK	0.1 mg/mL	Glycerol (fresh)	10%	TPCK	0.1 mg/mL	Glycerol (fresh)	10%	T-ER Reagent	Undiluted	Glycerol (fresh)	10%	Tricine, pH 8.0	100 mM	Glycine-HCl, pH 2.8	100 mM	Trietanolamine, pH 7.8	100 mM	Guadine-HCl	4 M	Trietanolamine, pH 7.8	100 mM	HEPES, pH 7.5	100 mM	Tris-buffered saline (TBS)*	Undiluted	Hydrides (Na, BH ₄ or NaCNBH ₃)	0	Tris-glycine, pH 8.0*	Undiluted	Hydrochloric acid	100 mM	Tris-glycine, pH 8.0*	Undiluted	Imidazole, pH 7.0	200 mM	Tris-HCl, pH 8.0	2 M	I-PER Reagent	Undiluted	Tris-HEPES-SDS*	NA	Laemmli SDS sample buffer*	0	Triton X-100	0.062%	Leupeptin	10 mg/mL	Triton X-114	5%	Mannitol	NA	Triton X-305	1%	Melibiose	0	Tween 20	5%	Mem-PER Reagent	Undiluted	Tween 60	5%	MES-buffered saline, pH 4.7	Undiluted	Urea	3 M	MES, pH 6.1	100 mM	Y-PER Reagent	Undiluted	Methanol	10%	Y-PER Plus Reagent	Undiluted	Magnesium chloride	NA	Zinc chloride (in TBS, pH 7.2)	10 mM	Modified Dulbecco's PBS*	Undiluted	Zwittergent 3-14	0.025%	MOPS, pH 7.2	100 mM			<table border="1"> <tr><td>2D sample buffer*</td><td>Undiluted</td><td>MOPS, pH 7.2</td><td>125 mM</td></tr> <tr><td>2-Mercaptoethanol</td><td>1 M</td><td>M-PER Reagent</td><td>Undiluted</td></tr> <tr><td>ACES, pH 7.8</td><td>50 mM</td><td>N-Acetylglucosamine</td><td>1.2</td></tr> <tr><td>Acetone</td><td>50%</td><td>Na acetate, pH 4.8</td><td>100 mM</td></tr> <tr><td>Acetonitrile</td><td>50%</td><td>Na acetate, pH 4.8</td><td>100 mM</td></tr> <tr><td>Ammonium sulfate</td><td>125 mM</td><td>Na acetate</td><td>0.125%</td></tr> <tr><td>Aprotinin</td><td>2 mM</td><td>Na bicarbonate</td><td>100 mM</td></tr> <tr><td>Ascorbic acid</td><td>500 mM</td><td>Na carbonate</td><td>1.3</td></tr> <tr><td>Asparagine</td><td>40 mM</td><td>Na carbonate, pH 9.4*</td><td>1.3</td></tr> <tr><td>Bicine</td><td>>1 M</td><td>Na chloride</td><td>1.25 M</td></tr> <tr><td>Bis-Tris, pH 6.5</td><td>50 mM</td><td>Na citrate-carbonate</td><td>0</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-carbonate, pH 9*</td><td>0</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na citrate-MOPS, pH 7.5*</td><td>1.16</td></tr> <tr><td>Borate (50 mM), Undiluted</td><td>0</td><td>Na deoxycholate (DOC)</td><td>0.25%</td></tr> <tr><td>B-PER Reagent II</td><td>1.2</td><td>Na deoxycholate (DOC)</td><td>0.25%</td></tr> <tr><td>B-PER Reagent II</td><td>1.2</td><td>Na hydroxide (NaOH)</td><td>75 mM</td></tr> <tr><td>B-PER Reagent PBS</td><td>1.2</td><td>Na phosphate</td><td>100 mM</td></tr> <tr><td>Brij-35</td><td>5%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Brij-56</td><td>5%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Brij-58</td><td>5%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Bromophenol blue (in 50 mM NaOH)</td><td>0.031%</td><td>NE-PER Reagent</td><td>Undiluted</td></tr> <tr><td>Calcium chloride (in TBS, pH 7.2)</td><td>40 mM</td><td>Nickel chloride (in TBS, pH 7.2)</td><td>10 mM</td></tr> <tr><td>CaCl₂</td><td>40 mM</td><td>NP-40</td><td>1%</td></tr> <tr><td>Cesium bicarbonate</td><td>100 mM</td><td>NP-40</td><td>1%</td></tr> <tr><td>Cetyltrimethylammonium chloride</td><td>NA</td><td>Octyl beta-glucoside</td><td>5%</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Octylthioglucoside</td><td>5%</td></tr> <tr><td>CHAPS</td><td>5%</td><td>Na-orthovanadate</td><td>5%</td></tr> <tr><td>CHES</td><td>5%</td><td>Na-orthovanadate (in PBS, pH 7.2)</td><td>5%</td></tr> <tr><td>CHES</td><td>5%</td><td>Phenol red</td><td>0.5 mg/mL</td></tr> <tr><td>CoCl₂</td><td>>500 mM</td><td>Phenol red</td><td>0.5 mg/mL</td></tr> <tr><td>CoCl₂</td><td>>500 mM</td><td>Phosphate-buffered saline (PBS)*</td><td>Undiluted</td></tr> <tr><td>CoCl₂</td><td>20 mM</td><td>PIPES, pH 6.8</td><td>Undiluted</td></tr> <tr><td>CTAB</td><td>2.5%**</td><td>PIPES, pH 6.8</td><td>100 mM</td></tr> <tr><td>Cysteine</td><td>350 mM</td><td>PMSF in isopropanol</td><td>1 mM</td></tr> <tr><td>Dithioerythritol (DTE)</td><td>25 mM</td><td>Potassium thiocyanate</td><td>250 mM</td></tr> <tr><td>DMF</td><td>5%</td><td>P-ER Reagent</td><td>NA</td></tr> <tr><td>DMSO</td><td>10%</td><td>RIPA buffer**</td><td>1.4</td></tr> <tr><td>DTAB</td><td>100 mM</td><td>Span 20</td><td>0.5%</td></tr> <tr><td>EDTA</td><td>100 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EGTA</td><td>100 mM</td><td>Sucrose</td><td>10%</td></tr> <tr><td>EPHES, pH 8.0</td><td>100 mM</td><td>TCEP</td><td>0</td></tr> <tr><td>Ethanol</td><td>100 mM</td><td>Thimerosal</td><td>0.01%</td></tr> <tr><td>Ferric chloride (in TBS, pH 7.2)</td><td>10 mM</td><td>Thiourea</td><td>NA</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>TLCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glycerol (fresh)</td><td>10%</td><td>TPCK</td><td>0.1 mg/mL</td></tr> <tr><td>Glutathione (reduced)</td><td>10%</td><td>T-ER Reagent</td><td>Undiluted</td></tr> <tr><td>Glutathione (reduced)</td><td>10%</td><td>Tricine, pH 8.0</td><td>100 mM</td></tr> <tr><td>Glutathione (reduced)</td><td>10%</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>Guadine-HCl, pH 2.8</td><td>100 mM</td><td>Trietanolamine, pH 7.8</td><td>100 mM</td></tr> <tr><td>Guadine-HCl, pH 2.8</td><td>100 mM</td><td>Tris-buffered saline (TBS)*</td><td>Undiluted</td></tr> <tr><td>HEPES, pH 7.5</td><td>100 mM</td><td>Tris-glycine, pH 8.0*</td><td>Undiluted</td></tr> <tr><td>Hydrides (Na, BH₄ or NaCNBH₃)</td><td>0</td><td>Tris-glycine, pH 8.</td></tr></table>	2D sample buffer*	Undiluted	MOPS, pH 7.2	125 mM	2-Mercaptoethanol	1 M	M-PER Reagent	Undiluted	ACES, pH 7.8	50 mM	N-Acetylglucosamine	1.2	Acetone	50%	Na acetate, pH 4.8	100 mM	Acetonitrile	50%	Na acetate, pH 4.8	100 mM	Ammonium sulfate	125 mM	Na acetate	0.125%	Aprotinin	2 mM	Na bicarbonate	100 mM	Ascorbic acid	500 mM	Na carbonate	1.3	Asparagine	40 mM	Na carbonate, pH 9.4*	1.3	Bicine	>1 M	Na chloride	1.25 M	Bis-Tris, pH 6.5	50 mM	Na citrate-carbonate	0	Borate (50 mM), Undiluted	0	Na citrate-carbonate, pH 9*	0	Borate (50 mM), Undiluted	0	Na citrate-MOPS, pH 7.5*	1.16	Borate (50 mM), Undiluted	0	Na deoxycholate (DOC)	0.25%	B-PER Reagent II	1.2	Na deoxycholate (DOC)	0.25%	B-PER Reagent II	1.2	Na hydroxide (NaOH)	75 mM	B-PER Reagent PBS	1.2	Na phosphate	100 mM	Brij-35	5%	NE-PER Reagent	Undiluted	Brij-56	5%	NE-PER Reagent	Undiluted	Brij-58	5%	NE-PER Reagent	Undiluted	Bromophenol blue (in 50 mM NaOH)	0.031%	NE-PER Reagent	Undiluted	Calcium chloride (in TBS, pH 7.2)	40 mM	Nickel chloride (in TBS, pH 7.2)	10 mM	CaCl ₂	40 mM	NP-40	1%	Cesium bicarbonate	100 mM	NP-40	1%	Cetyltrimethylammonium chloride	NA	Octyl beta-glucoside	5%	CHAPS	5%	Octylthioglucoside	5%	CHAPS	5%	Na-orthovanadate	5%	CHES	5%	Na-orthovanadate (in PBS, pH 7.2)	5%	CHES	5%	Phenol red	0.5 mg/mL	CoCl ₂	>500 mM	Phenol red	0.5 mg/mL	CoCl ₂	>500 mM	Phosphate-buffered saline (PBS)*	Undiluted	CoCl ₂	20 mM	PIPES, pH 6.8	Undiluted	CTAB	2.5%**	PIPES, pH 6.8	100 mM	Cysteine	350 mM	PMSF in isopropanol	1 mM	Dithioerythritol (DTE)	25 mM	Potassium thiocyanate	250 mM	DMF	5%	P-ER Reagent	NA	DMSO	10%	RIPA buffer**	1.4	DTAB	100 mM	Span 20	0.5%	EDTA	100 mM	Sucrose	10%	EGTA	100 mM	Sucrose	10%	EPHES, pH 8.0	100 mM	TCEP	0	Ethanol	100 mM	Thimerosal	0.01%	Ferric chloride (in TBS, pH 7.2)	10 mM	Thiourea	NA	Glycerol (fresh)	10%	TLCK	0.1 mg/mL	Glycerol (fresh)	10%	TPCK	0.1 mg/mL	Glutathione (reduced)	10%	T-ER Reagent	Undiluted	Glutathione (reduced)	10%	Tricine, pH 8.0	100 mM	Glutathione (reduced)	10%	Trietanolamine, pH 7.8	100 mM	Guadine-HCl, pH 2.8	100 mM	Trietanolamine, pH 7.8	100 mM	Guadine-HCl, pH 2.8	100 mM	Tris-buffered saline (TBS)*	Undiluted	HEPES, pH 7.5	100 mM	Tris-glycine, pH 8.0*	Undiluted	Hydrides (Na, BH ₄ or NaCNBH ₃)	0	Tris-glycine, pH 8.
2D sample buffer*	NA	M-PER Reagent	Undiluted																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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