

**Product:** 4X SDS Sample Buffer  
**Novagen Material Number:** 70607-3  
**Component:** 2 ml 4X SDS Sample Buffer  
**Kit Batch Number:** D00120255  
**Storage:** Store at -20°C.

**Buffer Formulation:** 250 mM Tris-HCl pH 6.8, 6% SDS, 300 mM DTT, 30% glycerol, and 0.02% bromophenol blue

**Test Conditions:** 4X SDS Sample Buffer has been tested to yield the expected banding pattern on Coomassie blue stained gels when 5 µl of Perfect Protein Markers or 10 µg of crude bacterial lysate were loaded on SDS PAGE mini-gels. There were no extraneous bands when sample buffer alone was loaded on gels.

**Certified by:** E. Uribe, Quality Systems Manager  
**Date:** 14-Sept-2011

**For Research Use Only.**

**Warranty:** EMD Chemicals, Inc., Novagen brand warrants that the product will meet or exceed these specifications when used (under normal conditions) in your laboratory. We will promptly replace the product free of charge if the product does not conform to these specifications. Our obligation and your sole remedy is limited to such replacement in the event that the product proves to be defective. No other warranties are expressed or implied, including, but not limited to, the implied warranties of merchantability and fitness for a particular purpose. EMD Chemicals, Inc., Novagen brand is not liable for consequential damages.