

## **DNA/RNA Gel Loading Buffer, 4x**

<http://www.lumiprobe.com/p/gel-loading-buffer-4x>

4x DNA/RNA Gel Loading Buffer is used to prepare nucleic acid samples for loading into an electrophoresis agarose gel .

The buffer contains Bromophenol Blue and Xylene Cyanol FF dyes and allows monitoring the mobility of the DNA/RNA fragments being analyzed in the gel. In a 1% TAE-agarose gel, the Bromophenol Blue front migrates at the level of nucleic acid fragments approximately 300-400 bp in size, while Xylene Cyanol migrates at approximately 3000-4000 bp.

The buffer also contains EDTA to inhibit metal-dependent nucleases and prevent nucleic acids degradation, and glycerol as a weighting agent to ensure uniform sample loading at the bottom of the gel well.

For use, add 4x DNA/RNA Loading Buffer to the DNA or RNA sample (1/3 of the sample volume), mix, and load into the agarose gel.

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### **General properties**

Appearance: deep blue liquid

Solubility: water

Quality control: functional testing

Storage conditions: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Desiccate.

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