



**Just fine Molecular Biology**

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**Loading Buffer DNA II**  
**Cat.No.: 306205 0,5 ml**

*For Acrylamide and Agarose Gels*

Composition:

Bromphenol blue sodium Salt:	0,25	%
Xylene cyanol FF:	0,25	%
Ficoll 400:	15	%

Storage condition: RT

They increase the density of the sample and they add colour to the sample, thereby simplifying the loading process. They contain dyes that, in a electric field, move toward the anode at predictable rates. In 1% agarose gels, bromophenol blue migrates with 300 bp linear double-stranded DNA fragment, whereas xylene cyanol FF migrates at approximately the same rate as linear double-stranded DNA 4 kb length. These relationships are not significantly affected by the concentration (0.5 to 1.4%) of agarose in the gel. The gel – loading buffer contains only one low concentration dye (bromophenol blue and xylene cyanol FF) to avoid masking the DNA Ladder fragments. But if the added dye is masking your signal because it is running on the same high in your gel, just dilute it more.

**How to predilute a DNA ladder with the loading dye?**

For DNA markers, apply 0.1µg per 1mm of agarose gel lane width. Often 1µg of marker is used in one electrophoresis run but it depends on the size of your gel and the comb.

If DNA markers are not prediluted with the Loading dye solution, then mix :  
The loading buffer is 6x concentrated, that means you have to use it 5:1.

DNA marker (Bioron 1 kbp with 1µg/5µl): 6X Loading Dye Solution (Bioron Loading Buffer DNA II):  
deionised water at a ratio 1:1:4  
for example, 5µl 1 kb ladder : 5µl 6x loading dye : 20µl water.  
By applying 30.0µl of this mixture, you'll have 1.0µg of total DNA per lane.

<b>Catalog #</b>	<b>Pack size</b>
306105	0,5 ml
306205	0,5 ml

Version EA310507

**Bioron**

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