

6X Agarose Gel Loading Buffer

Product	Con.	Cat#	Size
6X Agarose Gel Loading Buffer Type I	6X	IBS-BA006	10 ml
6X Agarose Gel Loading Buffer Type II	6X	IBS-BA007	10 ml
6X Agarose Gel Loading Buffer Type III	6X	IBS-BA008	10 ml
6X Agarose Gel Loading Buffer Type IV	6X	IBS-BA009	10 ml
6X Triple Agarose Gel Loading Buffer	6X	IBS-BA016	10 ml

Components : Common components - 0.25% Bromophenol Blue, 0.25% Xylene Cyanol FF,
Type I - 40% Sucrose, Type II - 15% Ficoll, Type III - 30% Glycerol
Type IV - w/o Xylene Cyanol FF Type I
Triple Buffer is contains other dye, thus appears band of three different size.

Storage Conditions : Cold

Storage of solutions at 4-8°C will allow their use for up to 12 months.

Introduction : Loading dye is mixed with DNA samples for use in agarose gel electrophoresis. It generally contains a dye to assess how "fast" your gel is running and a reagent to render your samples denser than the running buffer (so that the samples sink in the well).

dye	0.5-1.5% agarose
Xylene cyanol	5000 - 4000 bp
Bromophenol blue	500 - 400 bp
X	100 - 50 bp (only Triple Buffer)

Recipes for loading buffers

The precise amount of dye is not important. However, it is crucial that you prevent overlay of dye and expected DNA size. For example, if you are expecting a genotyping band of 200-400nt, you shouldn't use bromophenol blue since it will obscure your product. In this case, you should use a larger dye like xylene cyanol.