

Blue Loading Buffer

6x Loading buffer for DNA gel electrophoresis

Supplements for PCR

Cat.-No.	Conc.	Amount
PCR-254S-bl	6x	5x 1 ml
PCR-254L-bl	6x	5x 5 ml

For *in vitro* use only
 Quality guaranteed for 12 months
 Store at 4-8°C

Description

Blue Loading Buffer is formulated to facilitate loading of DNA containing samples into the wells of agarose and polyacrylamide gels. The buffer contains Bromophenol Blue and Xylene Cyanol FF as tracking dyes and indicator for the DNA fragment migration. In addition, it contains glycerol to add density and EDTA to inhibit nuclease activities.

The buffer is recommended for loading of DNA fragments larger than 100 bp.

Application

Add one part of Gel Loading Buffer to 5 parts of the DNA sample as shown in the table below.

Recommended use				
DNA sample	5 µl	10 µl	20 µl	50 µl
6x Gel Loading Buffer	1 µl	2 µl	4 µl	10 µl

Fragment Separation on Agarose Gels

DNA fragments size	agarose gel conc.	Bromophenole Blue running at approx.	Xylene Cyanol FF running at approx.
100 bp - 2 kbp	2.0%	<100 bp	800 bp
200 bp - 3 kbp	1.5%	120 bp	1 kbp
400 bp - 6 kbp	1.2%	200 bp	1.5 kbp
500 bp - 7 kbp	1.0%	300 bp	3 kbp
800 bp - 12 kbp	0.7%	700 bp	6 kbp
1 kbp - 30 kbp	0.5%	1000 bp	10 kbp

Related products

Standard PCR
 Ready-to-Use Mixes
 Core Kits
 Thermophilic Polymerases
 Deoxynucleotides (dNTPs)
 Custom Primers
 DNA Ladders

6x Blue Loading Buffer

60 mM Tris-HCl (pH 7.5), 60 mM EDTA, 60% (w/v)
 Glycerol, Bromophenol Blue, Xylene Cyanol FF