

Orange Loading Buffer

6x Loading buffer for DNA gel electrophoresis

Supplements for PCR

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

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

Description

Orange Loading Buffer is formulated to facilitate loading of DNA containing samples into the wells of agarose and polyacrylamide gels. The buffer contains Orange G as tracking dye 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 small DNA fragments up to 200 bp.

Application

Add 1 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.	Orange G running at approx.
100 bp - 2 kbp	2.0%	60 bp
200 bp - 3 kbp	1.5%	80 bp
400 bp - 6 kbp	1.2%	150 bp
500 bp - 7 kbp	1.0%	200 bp
800 bp - 12 kbp	0.7%	500 bp
1 kbp - 30 kbp	0.5%	700 bp

Related products

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

6x Orange Loading Buffer

60 mM Tris-HCl (pH 7.5), 60 mM EDTA, 60% (w/v) glycerol, Orange G