

# GelPilot<sup>®</sup> DNA Loading Dye, 5x

For safe and convenient loading and tracking of DNA samples on electrophoretic gels

## Product contents

<b>GelPilot DNA Loading Dye, 5x</b>	
<b>Cat. no.</b>	<b>239901</b>
GelPilot DNA Loading Dye, 5x	6 x 500 $\mu$ l
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## Storage

GelPilot DNA Loading Dye can be stored at  $-30^{\circ}\text{C}$  to  $25^{\circ}\text{C}$  for up to 24 months without showing any reduction in performance and quality. For long-term storage, we recommend storage at  $-30^{\circ}\text{C}$  to  $4^{\circ}\text{C}$ .

## Product description

GelPilot DNA Loading Dye is a high-quality gel-loading buffer for analysis of DNA samples using electrophoresis. GelPilot DNA Loading Dye contains 3 different marker dyes (bromophenol blue, xylene cyanol, and orange G) for reliable estimation of DNA migration distance and subsequent optimization of gel run time.

## Product use limitations

GelPilot DNA Loading Dye, 5x is intended for molecular biology applications. This product is not intended for the diagnosis, prevention, or treatment of a disease.

## Safety information

When working with chemicals, always wear a suitable lab coat, disposable gloves, and protective goggles. For more information, please consult the appropriate material safety data sheets (MSDSs).

These are available online in convenient and compact PDF format at

[www.qiagen.com/Support/MSDS.aspx](http://www.qiagen.com/Support/MSDS.aspx) where you can find, view, and print the MSDS for each

QIAGEN<sup>®</sup> Kit and kit component.



## 24-hour emergency information

Emergency medical information in English, French, and German can be obtained 24 hours a day from:

Poison Information Center Mainz, Germany

Tel: +49-6131-19240

## Quality control

In accordance with QIAGEN's ISO-certified Quality Management System, each lot of GelPilot DNA Loading Dye, 5x is tested against predetermined specifications to ensure consistent product quality.

## Procedure

GelPilot DNA Loading Dye is supplied as a 5x concentrated solution. Add 1 volume of GelPilot DNA Loading Dye, 5x to 4 volumes of your DNA sample prior to loading the sample on an agarose gel. See table below for an estimation of the migration distance of the 3 gel-tracking dyes contained in GelPilot Loading Dye.

**Table 1. Migration distance of gel-tracking dyes**

% gel	Xylene cyanol (light blue)		Bromophenol blue (dark blue)		Orange G (orange)	
	TAE	TBE	TAE	TBE	TAE	TBE
0.8	5000 bp	3000 bp	800 bp	400 bp	150 bp	<100 bp
1.0	3000 bp	2000 bp	400 bp	250 bp	<100 bp	<100 bp
1.5	1800 bp	1100 bp	250 bp	100 bp	<100 bp	<100 bp
2.0	1000 bp	600 bp	200 bp	<100 bp	<100 bp	<100 bp
2.5	700 bp	400 bp	100 bp	<50 bp	<50 bp	<50 bp

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