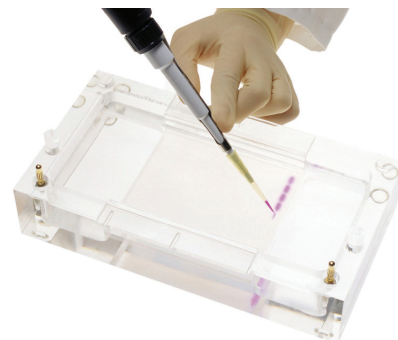
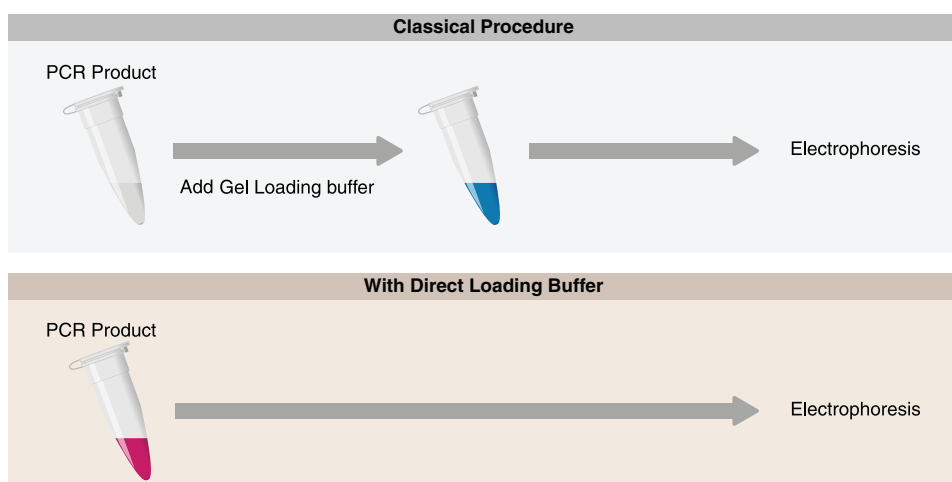


# Taq DNA Polymerase with Direct Loading Buffer

Kits and mastermixes for direct loading of PCR products on an agarose gel

## GAIN TIME IN THE ANALYSIS OF YOUR PCR RESULTS



*Fast and  
convenient*

## Coloured buffer for Direct Loading

The Direct Loading buffer provided with Taq DNA Polymerase serves as both reaction buffer and gel-loading solution. The buffer contains a densifying agent so that samples sink easily into the wells and a red/purple dye that allows direct monitoring on agarose gels. The red purple dye migrates at 400 bp on a 1.2% TAE or TBE gel.

*Direct loading  
onto gels*

## Products

Direct Loading buffer is either supplied in a CORE Kit together with TaqDNA Polymerase and dNTPs mix or in a ready-to use mastermix called Taq-&LOAD.

▶ **Taq CORE Kits – Direct loading :**

Kit containing Taq DNA Polymerase, 5X PCR Direct loading buffer w/ MgCl<sub>2</sub>, 5X PCR Direct loading buffer w/o MgCl<sub>2</sub>, 25mM MgCl<sub>2</sub> solution, dNTPs mix (at 10mM each or 25mM each).

▶ **Taq-&LOAD :**

5X concentrated ready to use Mastermix including Taq DNA Polymerase, dNTPs, MgCl<sub>2</sub> and direct loading buffer.

*High Efficiency  
Taq DNA  
Polymerase*

[www.mpbio.com](http://www.mpbio.com)

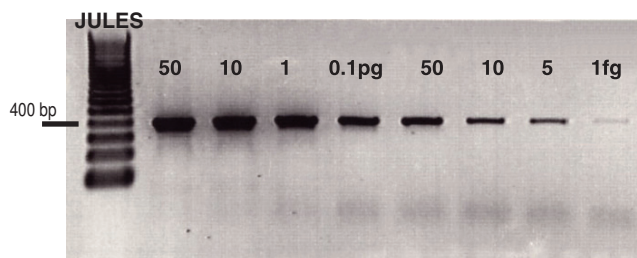
MP Biomedicals Europe • Tel: 00800.7777.9999 • Fax: 00800.6666.8888 • E-mail: [custserv.eur@mpbio.com](mailto:custserv.eur@mpbio.com)



## High sensitivity, high yield PCR

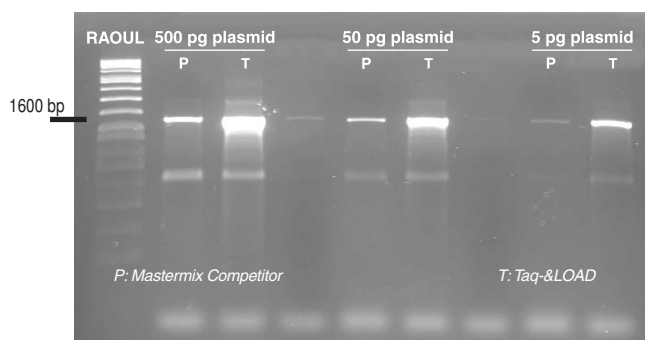
Taq-&LOAD offers a very high PCR sensitivity, leading to greater yields of specific PCR products.

Detection of as little as 1fg of DNA has been achieved.



**Fig. 1:**  
Amplification of a 400bp fragment from a pBR plasmid with Taq-&LOAD. Reaction conditions : 5µl of Taq-&LOAD Mastermix in a final 25µl reaction. 10µl of the reaction have been loaded on a 1.2% TBE gel.

Taq-&LOAD performs better than product from competitor.



**Fig. 2:**  
Amplification of a 1600bp fragment from a 4800bp plasmid. Reaction conditions : 10µl of Taq-&LOAD Mastermix or 25µl of Mastermix from competitor in a final 50µl reaction. 10µl of the reaction have been loaded on a 1% TBE gel.

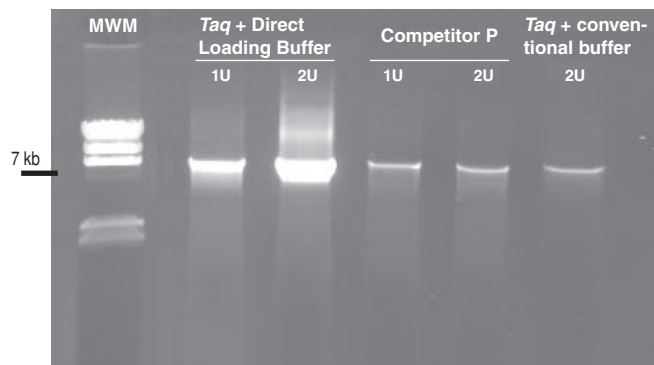
## Fast and Convenient

Use of "Direct loading" Products avoids repetitive addition of loading buffer/tracking dye to the PCR products and reduces also the risk of contamination from multiple pipetting steps.

Particularly useful in high throughput experiments.

## Improved PCR performance

Taq DNA Polymerase with Direct Loading buffer offers robust amplification equal, and in some cases superior, to Taq DNA Polymerase with conventional buffers.



**Fig. 3:**  
Amplification of a 7kb fragment from λ DNA. Lane 1 : lambda-Hind III molecular weight marker (Cat. # MWLHD10R). Lane 2 & 3: Taq DNA Polymerase + Direct Loading buffer. Lane 4 & 5: DNA Polymerase + colored buffer from competitor P. Lane 6: Taq DNA Polymerase + conventional reaction buffer. Reaction conditions : 50µl reaction ; 10 ng λ DNA, 200µM each dNTP, 50 pmol each specific primer, 1 or 2U of Taq DNA polymerase. 10µl of the reaction have been loaded on a 1% TBE gel.

## Applications

- ▶ PCR
- ▶ Two step RT-PCR
- ▶ Nested PCR
- ▶ T-vector cloning
- ▶ Restriction enzyme digestions

Cat No.	Product	Size
EPTQL025	Taq DNA Polymerase with Direct Loading Buffer	250U
EPTQL100	Taq DNA Polymerase with Direct Loading Buffer	1000U
EPTQKL105	Taq CORE Kit 10 -Direct Loading	5 x 250U + dNTPs Mix at 10mM each
EPTQKL255	Taq CORE Kit 25 - Direct Loading	5 x 250U + dNTPs Mix at 25mM each
EPTAL100	Taq-&LOAD Mastermix	1ml (100 rxn)
EPTAL110	Taq-&LOAD Mastermix	10 x 1ml (1000 rxn)

[www.mpbio.com](http://www.mpbio.com)

MP Biomedicals Europe • Tel: 00800.7777.9999 • Fax: 00800.6666.8888 • E-mail: [custserv.eur@mpbio.com](mailto:custserv.eur@mpbio.com)

