



Product Insert
ImmoMix™ & ImmoMix™ Red

Catalogue Numbers:

ImmoMix™	100 Reactions	BIO-25019
ImmoMix™	500 Reactions	BIO-25020
ImmoMix™ Red	100 Reactions	BIO-25021
ImmoMix™ Red	500 Reactions	BIO-25022

Features

- Same high specificity and performance as IMMOLASE™ DNA Polymerase
- Enhanced specificity and reduced background
- Convenient pre-mixed, pre-optimized 2x solutions
- Reduced risk of contamination
- Dramatically decreases the time required for reaction set-up
- Reproducible results

Applications

- Ultra-high specificity for multiplex reactions
- Products suitable for TA cloning

Description

ImmoMix is a complete ready-to-use heat-activated 2x reaction-mix, which simply requires the user to add only water, template and primers, and then pre-heat to 95°C for 10 minutes to successfully carry out PCR assays. The 10 minute activation step eliminates the presence of non-specifics such as primer-dimers and mis-primed products, since the enzyme is inactive at initial low temperatures.

ImmoMix Red combines all of the features and advantages of ImmoMix, and contains an additional inert red dye. This non-toxic, non-hazardous red dye allows users to load samples directly onto a gel, without the need to add loading buffer since the mix is of sufficiently high density to sink to the bottom of the gel. Adequate mixing is also ensured when reactions are set up.

ImmoMix and ImmoMix Red are based on our IMMOLASE™ DNA polymerase, which leaves an 'A' overhang, and have been optimized for a wide variety of templates. An additional 50mM MgCl₂ solution is included should any fine adjustments be required.

ImmoMix and ImmoMix Red dramatically reduce the time needed to set up reactions, thereby reducing the risk of contamination. Greater reproducibility is ensured, by reducing the number of pipetting steps that can lead to pipetting errors.

ImmoMix and ImmoMix Red Protocol

The Bioline ImmoMix and ImmoMix Red preparations are designed with ease-of-use in mind. Each reaction requires 25µl of 2x ImmoMix (supplied) in addition to Primers and Template, and 18.2 mΩ water for a final reaction-volume of 50µl.

Reaction Conditions (For a 50µl reaction)

ImmoMix / ImmoMix Red	25µl
Template and Primers	as required
Water (ddH ₂ O)	up to 50µl

Activation: Pre-heating step of 10 minutes at 95°C
Denature: 94-96°C
Elongate: 70-72°C (allowing 15-30 seconds/kb)

Low template concentrations may result in smearing. This can be remedied by reducing the duration of the 95°C activation step.

An additional tube of 50mM MgCl₂ is provided should any fine adjustments be necessary. The table below shows the volume of MgCl₂ that must be added to a 50µl final reaction to achieve the desired final concentration.

Final MgCl ₂ Required	MgCl ₂ to be added
1.5mM	0µl
2.0mM	0.5µl
2.5mM	1µl

This data is intended for use as a guide only; conditions will vary from reaction to reaction and may need optimization.

Product Specifications

Batch details:
Batch No: See vial

Components

ImmoMix	100 Reactions	500 Reactions
ImmoMix	2 x 1.25ml	10 x 1.25 ml
50mM MgCl ₂ Solution	1.2ml	1.2ml
ImmoMix Red		
ImmoMix Red	2 x 1.25ml	10 x 1.25ml
50mM MgCl ₂ Solution	1.2ml	1.2ml

Reagent Specifications:

MgCl₂ Stock Solution: 50mM MgCl₂

Storage Conditions:

ImmoMix and ImmoMix Red can be stored for up to 6 months at -20°C, or up to 2 weeks at +4°C. Repeated freeze /thaw cycles should be avoided.

Shipping Conditions:

On Dry Ice or Blue Ice

Associated Products:

Product Name	Pack Size	Cat No
Agarose	100g	BIO-41026
Agarose Tablets	150g	BIO-41028
HyperLadder I	200 Lanes	BIO-33025
SureClean Plus	1 x 5ml	BIO-37047

Product Citations:

1. Fakhari, F.D., *et al. The Journal of Clinical Investigation* **116(3)**, 735-742 (2006).
2. Hugo, E.R., *et al. Endocrinology* **147(1)**, 306-313A (2006).
3. Dobolyi, A., *et al. Comperative Neurobiology*, 498(3), 375-389 (2006).

Notes

1. IMMOLASE is a Trademark of Bioline.
2. This product insert is a declaration of analysis at the time of manufacture.
3. Research Use Only.

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