



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:

- Highly suited to real-time assays
- Ultra-high specificity for multiplex reactions
- TA cloning

Description:

ImmoMix is a complete ready-to-use heat-activated 2x Reaction-Mix, which simply requires the consumer to add only water, template and primers, and then pre-heat to 95°C for 7 minutes to successfully carry out PCR assays. The 7-minute activation step eliminates the presence of non-specifics such as primer-dimers and mis-primed products, by ensuring 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 optimised for a wide variety of templates. An additional 50mM of 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.

Product Citations:

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

Notes:

1. IMMOLASE is a Trademark of Bioline.
2. Purchase of this product does not convey a licence to perform any patented process.
3. This product insert is a declaration of analysis at the time of manufacture.
4. Research Use Only.

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Product Specifications:

Batch details:

Batch No: See vial

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

Composition of 2x ImmoMix:

IMMOLASE™ DNA Polymerase
32mM (NH₄)₂SO₄
134mM Tris-HCl (pH 8.3 at 25°C)
0.02% Tween 20
2mM dNTPs
Stabilizer
3mM MgCl₂

Additional reagents supplied:

MgCl₂ Stock Solution: 50mM MgCl₂

Extended Stability: A sample of ImmoMix and ImmoMix Red were stored at +4°C over a five-week period and tested daily. No detectable loss of activity was evidenced. However, in view of the possibility of microbial contamination, please adhere to the recommended storage conditions.

Associated Products:

Product Name	Pack Size	Cat No	
dNTP Set	4 x 25µmol	BIO-39025	
dNTP Mix	100mM total 40mM total	1 x 500µl 1 x 500µl	BIO-39028 BIO-39043
ImmoMix	100 Reactions 500 Reactions	BIO-25019 BIO-25020	
HyperLadder I	200 Lanes 500 Lanes	BIO-33025 BIO-33026	
Agarose	500g	BIO-41025	

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: 7 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
1.5 mM	0 µl
2.0 mM	0.5 µl
2.5 mM	1 µl

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