



**Product Insert**

**ImmoMix & ImmoMix Red**

Research Use Only

**Product:**  
ImmoMix  
ImmoMix Red

**Composition of supplied 2x ImmoMix:**  
IMMOLASE™ DNA Polymerase  
32 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>  
125 mM Tris-HCl (pH 8.3 at 25°C)  
0.02% Tween 20  
2 mM dNTP's  
Stabilizer  
3 mM MgCl<sub>2</sub>.

**Description:**

ImmoMix is a complete "ready to go" heat-activated 2x reaction-mix which requires the consumer to add only water, template and primers and then pre-heat to 95°C for 7 minutes to successfully carry out polymerase 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 is based on our IMMOLASE™ DNA polymerase, which leaves A' overhangs, and has been optimised for a wide variety of templates. However a 50mM magnesium solution is included should any fine adjustments be required.

ImmoMix Red combines all of the features and advantages described above, but also contains a red dye which permits easy visualisation and direct loading onto a gel (no need to mix with loading buffer).

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.

**Catalogue numbers:**

ImmoMix	BIO-25019	100 reactions
	BIO-25020	500 reactions
ImmoMix Red	BIO-25021	100 reactions
	BIO-25022	500 reactions

**Batch details:**

Batch No: See vial

**Additional reagents supplied:**

MgCl<sub>2</sub> Stock Solution: 50mM MgCl<sub>2</sub>

**Directions for Use:**

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 sufficient 18.2 mΩ water for a final reaction-volume of 50µl.

Reaction Conditions (for a 50µl reaction)	
ImmoMix / ImmoMix Red	25 µl
Template and Primers	as required
Water (ddH <sub>2</sub> O)	up to 50 µl
Activation: 7 minutes at 95°C	
Denature: 94-96°C	
Elongate: 70-72°C (allowing 15-30 seconds/kb)	
This data is intended for use as a guide only; conditions will vary from reaction to reaction and may need optimisation.	

An additional tube of 50 mM MgCl<sub>2</sub> is provided should any fine adjustments be necessary. The table below shows the volume of MgCl<sub>2</sub> that must be added to a 50µl final reaction volume to achieve the desired final concentration.

Final MgCl <sub>2</sub> Required	MgCl <sub>2</sub> to be added
1.5 mM	0 µl
2.0 mM	0.5 µl
2.5 mM	1 µl

**Storage Conditions:**

6 months at -20°C or 2 weeks at 4°C

Extended Stability: This product was stored at +20 °C over a 5 week period and tested daily. No detectable loss of activity was evidenced. However, due to potential of microbiological contamination, please adhere to storage conditions outlined above.

Repeated freeze / thaw should be avoided

Note: This product is supplied for use in primer extension reactions. Purchase of this product does not convey a licence to perform any patented process.

IMMOLASE is a Trademark of Bioline

**This product contains a declaration of analysis at the time of manufacture**