

# 2x PolyMate Additive

Shipping: On Dry/Blue Ice Catalog number

BIO-37041: 2 x 1.2ml

Batch No.: See vial

Concentration: 2x

## Storage and stability:

2x PolyMate Additive is shipped on Dry/Blue Ice and can be stored for up to 12 months at -20°C.

## Safety precautions:

Please refer to the material safety data sheet for information.

## Notes:

1. PolyMate should not be used in combination with any other additives for polymerase reactions.
2. This product insert is a declaration of analysis at the time of manufacture.
3. Research Use Only.

Store at -20°C



A Meridian Life Science® Company

## Features

- Dramatically improves PCR specificity and yield
- Compatible with all commercially available thermostable DNA polymerases
- Ideal for difficult templates
- Reduces smearing and background

## Applications

- DNA Polymerase reactions where specificity is critical
- Enhancing the performance and specificity of any thermostable DNA polymerase

## Description

PolyMate is a proprietary additive for use in reactions involving any thermostable DNA polymerase, designed to dramatically improve reaction specificity. PolyMate provides an optimized composition of reagents, and is ideally suited to dirty/difficult templates with GC or AT rich DNA, repetitive sequences or sequences with a high level of secondary structure.

PolyMate is provided at a concentration of 2x and acts as a melting agent by allowing the DNA polymerase and oligonucleotides greater access to the template DNA. PolyMate does not contain magnesium, dNTPs, or buffer components. In some cases it may be necessary to optimize the magnesium concentration.

### Directions for use:

Compose the reaction mix, containing buffer, dNTPs, Mg<sup>2+</sup>, template DNA, primers, DNA polymerase.

Add 2x PolyMate at the volume of a half of the final volume of the reaction (e.g. 12.5µl per 25µl final volume, 25µl per 50µl final volume, etc).

Add ddH<sub>2</sub>O up to the final volume and mix with pipetting.

### Product Citations:

1. Rose, R.H., *et al. Br. J.Pharmacol.* **165(6)**, 1789–1800 (2012).
2. Griffin, P.C., *et al. BMC Biol.* **9(19)**, (2011).
3. Chen, Y., *et al. Genes and Immunity* **13**, 29–37 (2011).
4. Baker, J.G., *et al. Mol. Pharmacol.* **74(5)**, 1246-1260 (2008).
5. Edwards, M., *et al. Mol. Eco. Notes* **7(6)**, 1302-1304 (2007).
6. Oates, N., *et al. Am. J. Hum. Gene.* **79(1)**, 155-162 (2006).

### Trademarks:

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### Associated Products:

Product Name	Pack Size	Cat No
IMMOLASE™ DNA Polymerase	500 Units	BIO-21047
ACCUZYME™ DNA Polymerase	500 Units	BIO-21051
BIOLASE DNA Polymerase	500 Units	BIO-21042
BIOTAQ™ DNA Polymerase	500 Units	BIO-21040
PCR Water (Ultra-pure)	10x10ml	BIO-37080

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