

## Product Datasheet

### HiDi® 2x PCR Master Mix 9101

**Product Name** HiDi® 2x PCR Master Mix

**Catalog Number** #9101

**Description** HiDi® stands for High Discrimination of mismatches at the 3'-terminus of primers in PCR. HiDi® 2x PCR Master Mix is a ready-to-use master mix specially optimized for assays in which high discrimination with SYBR chemistry is required. The combination of highly selective aptamer-based fast-start formulated HiDi® DNA polymerase and an optimized buffer with ultrapure dNTPs ensures simple reaction setup and reliable results. HiDi® DNA polymerase efficiently amplifies from primers that are matched at the 3'-end and discriminates primers that are mismatched. By using HiDi® DNA polymerase, less than 10 copies of a mutation can be detected in a background of  $> 10^4$  wild-type copies.

For more information, please check :  
**HiDi® 2x PCR Master Mix**

**Tested Applications** End-Point, Real-Time

**Brand** myPOLS Biotec

**Storage** -20°C

**References** Drum, M., Kranaster, R., Ewald, C., Blasczyk, R., & Marx, A. (2014). Variants of a *Thermus aquaticus* DNA polymerase with increased selectivity for applications in allele- and methylation-specific amplification. *PLoS one*, 9(5), e96640.

Barraud, N., Létoffé, S., Beloin, C., Vinh, J., Chiappetta, G., & Ghigo, J. M. (2021). Lifestyle-specific S-nitrosylation of protein cysteine thiols regulates *Escherichia coli* biofilm formation and resistance to oxidative stress. *npj Biofilms and Microbiomes*, 7(1), 1-11.

Miotto, O., Sekihara, M., Tachibana, S. I., Yamauchi, M., Pearson, R. D., Amato, R., ... & Mita, T. (2020). Emergence of artemisinin-resistant *Plasmodium falciparum* with kelch13 C580Y mutations on the island of New Guinea. *PLoS pathogens*, 16(12), e1009133.

Yang, Z., Le, J. T., Hutter, D., Bradley, K. M., Overton, B. R., McLendon, C., & Benner, S. A. (2020). Eliminating primer dimers and improving SNP detection using self-avoiding molecular recognition systems. *Biology Methods and Protocols*, 5(1), bpaa004.

Morisaka, H., Yoshimi, K., Okuzaki, Y., Gee, P., Kunihiro, Y., Sonpho, E., ... & Mashimo, T. (2019). CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. *Nature communications*, 10(1), 1-13.

Madhuri, S., Bártulos, C. R., Serif, M., Lepetit, B., & Kroth, P. G. (2019). A strategy to complement PtAUREO1a in TALEN knockout strains of *Phaeodactylum tricornutum*. *Algal Research*, 39, 101469.

**Content** S pack: 1 x 1.25 ml HiDi® 2x PCR Master Mix

M pack: 5 x 1.25 ml HiDi® 2x PCR Master Mix

**Medix Biochemica**

**Oy Medix Biochemica Ab**

Headquarters  
Klovinpellontie 3  
FI-02180 Espoo  
Finland  
Email: [sales@medixbiochemica.com](mailto:sales@medixbiochemica.com)

**Medix Biochemica USA Inc.**

10850 Metro Court  
Maryland Heights, MO 63043  
United States of America  
Email: [sales@medixbiochemica.com](mailto:sales@medixbiochemica.com)

---