
Product Datasheet

**HiDi® Taq 2x PCR Master Mix
#4200**

Product Name	HiDi® Taq 2x PCR Master Mix
Catalog Number	#4200
Description	HiDi® stands for High Discrimination of mismatches at the 3'-terminus of primers in PCR. HiDi® Taq 2x PCR Master Mix is a ready-to-use master mix specially optimized for assays in which high discrimination is required. The combination of highly selective aptamer-based fast-start formulated HiDi® Taq DNA polymerase and an optimized buffer with ultrapure dNTPs ensures simple reaction setup and reliable results. HiDi® Taq DNA polymerase efficiently amplifies from primers that are matched at the 3'-end and discriminates primers that are mismatched. The variant has a 5'-3'-exonuclease activity and therefore, can be used for hydrolysis probe-based real-time PCRs. By using HiDi® Taq 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® Taq 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 <i>Thermus aquaticus</i> DNA polymerase with increased selectivity for applications in allele- and methylation-specific amplification. <i>PLoS one</i>, 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 <i>Escherichia coli</i> biofilm formation and resistance to oxidative stress. <i>npj Biofilms and Microbiomes</i>, 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 <i>Plasmodium falciparum</i> with kelch13 C580Y mutations on the island of New Guinea. <i>PLoS pathogens</i>, 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. <i>Biology Methods and Protocols</i>, 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. <i>Nature communications</i>, 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 <i>Phaeodactylum tricornutum</i>. <i>Algal Research</i>, 39, 101469.
Content	S pack: 1 x 1.25 ml HiDi® Taq 2x PCR Master Mix M pack: 5 x 1.25 ml HiDi® Taq 2x PCR Master Mix