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## **Product Datasheet**

### **HiDi® 2x PCR Master Mix #9101**

<b>Product Name</b>	HiDi® 2x PCR Master Mix
<b>Catalog Number</b>	#9101
<b>Description</b>	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 : <b>HiDi® 2x PCR Master Mix</b>
<b>Tested Applications</b>	End-Point, Real-Time
<b>Brand</b>	myPOLS Biotec
<b>Storage</b>	-20°C
<b>References</b>	<p>Drum, M., Kranaster, R., Ewald, C., Blasczyk, R., &amp; 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.</p> <p>Barraud, N., Létoffé, S., Beloin, C., Vinh, J., Chiappetta, G., &amp; 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.</p> <p>Miotto, O., Sekihara, M., Tachibana, S. I., Yamauchi, M., Pearson, R. D., Amato, R., ... &amp; 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.</p> <p>Yang, Z., Le, J. T., Hutter, D., Bradley, K. M., Overton, B. R., McLendon, C., &amp; 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.</p> <p>Morisaka, H., Yoshimi, K., Okuzaki, Y., Gee, P., Kunihiro, Y., Sonpho, E., ... &amp; Mashimo, T. (2019). CRISPR-Cas3 induces broad and unidirectional genome editing in human cells. <i>Nature communications</i>, 10(1), 1-13.</p> <p>Madhuri, S., Bártulos, C. R., Serif, M., Lepetit, B., &amp; Kroth, P. G. (2019). A strategy to complement PtAUREO1a in TALEN knockout strains of <i>Phaeodactylum tricornutum</i>. <i>Algal Research</i>, 39, 101469.</p>
<b>Content</b>	<p>S pack: 1 x 1.25 ml HiDi® 2x PCR Master Mix</p> <p>M pack: 5 x 1.25 ml HiDi® 2x PCR Master Mix</p>