

Product Datasheet

HiDi® Taq DNA polymerase 9201

Product Name HiDi® Taq DNA polymerase

Catalog Number #9201

Description HiDi® stands for **H**igh **D**iscrimination of mismatches at the 3'-terminus of primers in PCR. This enzyme family is optimized for this feature and is the first choice for applications that rely on this property such as allele-specific PCR (asPCR), also known as allele-specific amplification (ASA).

Comparison studies with competitor products show that the HiDi® Taq DNA polymerase family is the first choice for highly selective PCRs, such as genotyping by allele-specific PCR, HLA genotyping, analysis of single CpG methylation sites or the detection of mutations in a high background of wild-type sequences.

By using HiDi® Taq DNA polymerase, less than 10 copies of a mutation can be detected in a background of >10,000 wild-type copies without any other tedious assay optimization.

Applications:

- Allele-specific PCR (asPCR), allele-specific amplification (ASA)
- HLA genotyping
- Analysis of single CpG methylation sites by PCR (methylation specific PCR, MSP)
- Mutation detection by PCR even in a high background of wild-type sequences
- Genotyping e.g., in CRISPR/Cas and TALEN approaches

This DNA polymerase is also available as **a nuclease deficient variant**, featuring higher robustness towards potential PCR inhibitors and compatibility with real-time dyes.

Several independently conducted studies show that HiDi® Taq DNA polymerase is ideally suited for use in asPCR in numerous research areas ranging from mutation detection to genome editing. Please see "References" below.

For research use and further manufacturing. Designed and manufactured under ISO13485

Tested Applications End-Point, Real-Time

Brand myPOLS Biotec

Storage -20°C

References

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Primordial Germ Cell Migration and Histological and Molecular Characterization of Gonadal Differentiation in Pachón Cavefish *Astyanax mexicanus*

Imarazene B, Beille S, Jouanno E, Branthone A, Thermes V, Thomas M, Herpin A, Rétaux S, Guiguen Y Sex Dev. 2021 Mar 10;1-18.

Link to publication: <https://doi.org/10.1159/000513378>

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<https://doi.org/10.1016/j.stemcr.2019.11.008>

A New Protocol for the Detection of Sterigmatocystin-producing Aspergillus Section Versicolores Using a High Discrimination Polymerase.

Kubosaki A, Kobayashi N, Watanabe M, Yoshinari T, Takatori K,

Kikuchi Y, Hara-Kudo Y, Terajima J, Sugita-Konishi Y.

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S Madhuri, CR Bártulos, M Serif, B Lepetit, PG Kroth

Algal Research, 2019 May, 101469

Link to publication:

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Genome Res. 2018 Feb;28(2):223-230

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One-step generation of multiple gene knock-outs in the

diatom *Phaeodactylum tricornutum* by DNA-free genome editing.

Serif M, Dubois G, Finoux AL, Teste MA, Jallet D, Daboussi F.
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Content	S pack: 250 U, 5 U/ μ l, 1 x 50 μ l HiDi® Taq DNA polymerase; 1 x 1.25 ml 10x HiDi reaction buffer
	M pack: 250 U, 5 U/ μ l, 1 x 200 μ l HiDi® Taq DNA polymerase; 2 x 1.25 ml 10x HiDi reaction buffer