dNTP Set

Daten Sheet

Version: 02/07.2024C

Product	Article Number	Size
dNTP Set - 100 mM 100 mM per dNTP (dATP, dGTP, dTTP, dCTP)	BS91.961.0200	200 µl per dNTP
	BS91.961.4250	1000 µl per dNTP
	BS91.961.5000	5x 1000 µl per dNTP

Product Details

Shipping	Frozen (on dry ice)
Storage	-20°C (long term) 2°C – 8°C (short term) Avoid frequent freezing/thawing.
Expiry date	See product label

General Information

To synthesize a new DNA strand, the enzyme DNA polymerase requires the four bases A (adenine), G (guanine), C (cytosine) and T (thymine). For in vitro PCR reactions, all four DNA building blocks must therefore be added in the form of **d**eoxy **N**ucleoside **T**ri-**P**hosphates (dNTPs). Our dNTP Set contains all four dNTPs in separate reaction tubes. For maximum flexibility in every application.

The purity of the dNTPs is crucial for the accuracy of the results. Our dNTPs are produced by a highly effective chemical method and have a purity of > 99% (purity determined by HPLC test). Our dNTP Set is therefore suitable for highly sensitive PCR assays.

Our dNTP Set contains the sodium salts of dATP, dCTP, dGTP and dTTP in separate reaction tubes. The pH value of the individual solutions has been adjusted to pH 7.0. The optimal concentration of dNTPs varies for each DNA polymerase and must be adjusted individually for each application. The Bio&SELL Taq DNA polymerase works optimally at a dNTP concentration of 200 µM. Make sure that all dNTPs in your reaction mixture are present at a concentration of 200 µM.

The dNTP Set contains:

Component	Concentration	Color
dATP	100 mM	White
dCTP	100 mM	Purple
dGTP	100 mM	Yellow
dTTP	100 mM	Black

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Notes

- The dNTP Set can be used for all types of PCR assays where high quality reagents are required (such as PCR, qPCR, DNA labeling and sequencing methods).
- For a concentration of 200 µM per dNTP in a 20 µl reaction mixture, please use 0.2 µl of the product.

Precautions and Disclaimer

This product is for research use only. Please read the Safety Data Sheet for information on hazards and safe handling.

Safety Note: This product should only be used by persons experienced in laboratory applications. Standard laboratory protective clothing such as gowns, gloves and goggles should be worn.

Do you have any questions?

If you have any further questions about this product, please do not hesitate to contact us!
By e-mail: info@bio-sell.de or by phone: +49 (0) 9128 724 32 32.

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