dNTP Mix

Data Sheet

Version: 02/07.2024C

Product	Article Number	Size
dNTP Mix - 40 mM 10 mM per dNTP (dATP, dGTP, dTTP, dCTP)	BS91.911.00200	200 µl
	BS91.911.01000	1000 µl
	BS91.911.05000	5x 1000 µl
	BS91.911.10000	10x 1000 µl

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 ready-to-use dNTP mix contains all four dNTPs already premixed in a reaction tube. For convenient PCR preparation with minimal pipetting inaccuracies, reduced risk of contamination and increased time and material savings.

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

Our dNTP mix contains the sodium salts of dATP, dCTP, dGTP and dTTP. The pH value of the ready-to-use solution 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. Bio&SELL Taq DNA polymerase works optimally at a dNTP concentration of 200 µM.

The dNTP Mix contains:

Component	Concentration
dATP	10 mM
dCTP	10 mM
dGTP	10 mM
dTTP	10 mM

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Notes

- The dNTP mix 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 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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