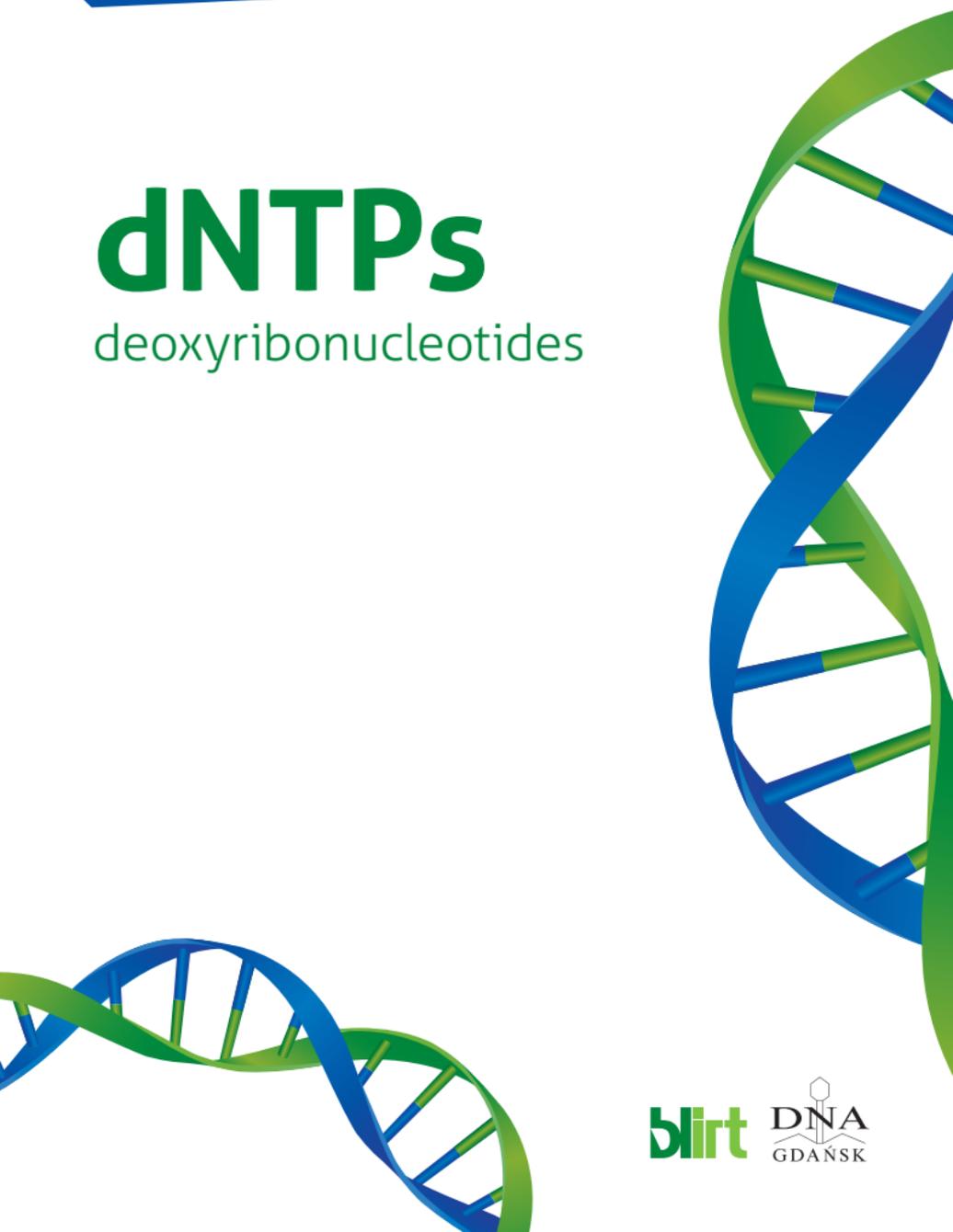


# dNTPs

deoxyribonucleotides



# dNTPs

## deoxyribonucleotides

The dNTPs is a buffered solution of ultrapure deoxynucleoside 5'-triphosphates (dATP, dCTP, dGTP, dTTP), ready to use in PCR, RT-PCR and Real-Time PCR applications. The dNTPs are available as a set of four separate buffered dNTPs solutions (**dNTPs SET**) and also as an accurate mixture (**dNTPs MIX**). Ready-to-use dNTPs MIX guarantees high amplification efficiency and prevents incorrect incorporation of dNTP in the synthesized DNA strand.

Deoxyribonucleotides are a crucial component of PCR reaction and their chemical purity has a significant influence on the PCR reaction results. They are supplied as **lithium salts** solutions, which provides extended stability and resistance to repeated freezing and thawing cycles.



## dNTPs

deoxyribonucleotides

### Features and advantages

- The highest purity, determined by means of enzymatic synthesis and high resolution HPLC (> 99 % dNTP, < 0.9 % dNDP)
- Increased sensitivity and yield; allows the detection of a small number of copies of template DNA
- DNase, RNase, ATPase and pyrophosphatase free
- Effectively and efficiently amplifies even very large PCR amplicons
- The presence of lithium salt in the storage buffer guarantees high stability and resistance to frequent thawing and freezing cycles
- Free of modified dNTP, tetraphosphorane and pyrophosphorane contaminations, which often cause an inhibition of the PCR reaction

### Applications

- PCR, long-PCR, Real-time PCR, RT-PCR
- cDNA synthesis
- Primer extension
- DNA sequencing and labeling

## Components

Product	Concentration	Volume	Cat. No.
<b>Equimolar mixtures of dATP, dCTP, dGTP, dTTP</b>			
dNTPs MIX 8 mM Total	2 mM of each dNTP	1 ml	RP61
dNTPs MIX 10 mM Total	2.5 mM of each dNTP	1 ml	RP63
dNTPs MIX 40 mM Total	10 mM of each dNTP	1 ml	RP64
dNTPs MIX 100 mM Total	25 mM of each dNTP	1 ml	RP65
<b>Sets of separate dATP, dCTP, dGTP and dTTP solutions</b>			
dNTPs SET 10 mM	10 mM of each dNTP (separately)	4 x 1 ml	RP665
dNTPs SET 100 mM	100 mM of each dNTP (separately)	4 x 1 ml	RP675

## Storage &amp; shipping

**Storage conditions**

Store at -20°C upon receipt. Avoid multiple freezing/thawing cycles. Aliquoting is recommended.

**Shipping conditions**

Shipping on dry or blue ice.

 For research use only

Date of purchase

Warranty

12 months from the date of purchase provided proper storage