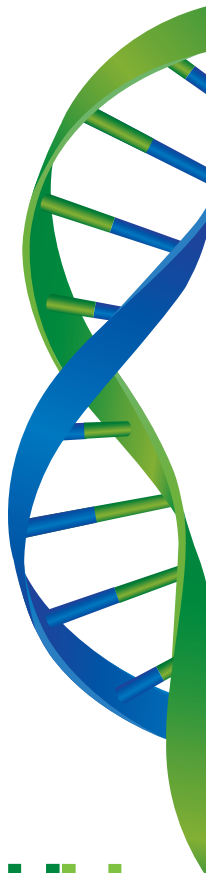


dNTPs

deoxyribonucleotides



dNTPs

deoxyribonucleotides

The molecular grade dNTPs are available as a set of four separate buffered dNTPs solutions (**dNTPs SET**) and also as accurate mixtures of ultrapure deoxynucleoside 5'-triphosphates (dATP, dCTP, dGTP, dTTP), ready to use in PCR, RT-PCR and Real-Time PCR applications (**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 (at pH 7.5 in purified PCR grade water), which provide **extended stability** and resistance to repeated freezing and thawing cycles.

Applications

- end-point PCR, long range PCR, Real-time PCR, RT-PCR
- cDNA synthesis
- primer extension
- DNA sequencing and labeling



Features and advantages

- **High quality:** 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; effectively and efficiently amplifies even very large PCR amplicons.
- **Designed for PCR:** free of tetraphosphoranes, pyrophosphoranes and modified dNTPs, which often cause an inhibition of the PCR reaction.
- **Enzyme free:** DNase, RNase, Nickase, ATPase and pyrophosphatase free.
- **Long shelf-life:** the presence of lithium salt in the storage buffer guarantees high stability and resistance to frequent thawing and freezing cycles.
- **Choice of sets or mix packs:** matching the format to your needs.

Quality control

Functionality tested in PCR reactions. No unspecific nuclease activity detected.

dNTPs

deoxyribonucleotides

Components

Product	Concentration	Volume	Cat. No.
Equimolar mixtures of dATP, dCTP, dGTP, dTTP			
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
Sets of separate dATP, dCTP, dGTP and dTTP solutions			
dNTPs SET 10 mM	10 mM of each dNTP (separately)	4× 1 ml	RP665
dNTPs SET 100 mM	100 mM of each dNTP (separately)	4× 1 ml	RP675

Storage & shipping

Storage conditions

Store at -20°C upon receipt for optimum stability. Avoid repeated freeze/thaw cycles.

Shipping conditions

Shipping on dry or blue ice.

 For research use only

Expiry

The information on the label