

## Description dNTP mix and dNTP-sets:

dNTP-sets from GeneON have PCR Grade and contains four separate tubes of dATP, dCTP, dGTP and dTTP supplied as aqueous solutions at pH 8.5. The dNTP-Mix contains an optimized mixture of dNTP`s with 10 mM of each nucleotide.

## Applications for dNTP mix and dNTP-sets:

- all molecular biology applications
- PCR/qPCR
- reverse transcription
- DNA labeling
- DNA sequencing

ALL dNTP's are free of human or bacterial DNA

## Quality control dNTP mix and dNTP-sets:

purity: purity test with RP-HPLC: greater 99 % (stable from lot-to-lot)

- Application tests:
  - Lambda DNA: 18 kb fragment, less than 20 pg template
  - RT-PCR: Human DNA, 600 bp fragment, less than 20 pg template
- Free of bacterial - and human DNA
- Free of: DNase, RNase, Protease and no nicking activity
- produced in German factory (ISO: 9001/2001)

**Storage:** store at - 20°C up to 24 months, short term storage at room temperature is possible

## Components of dNTP set:

### dATP

2'-Deoxyadenosine 5'-triphosphate, sodium salt  
CAS Number: 1927-31-7  
Formula:  $C_{10}H_{13}N_5O_{12}P_3$  (Anion)  
Molecular weight:  $488.16 \text{ g}\cdot\text{mol}^{-1}$   
Concentration: 100 mM

### dGTP

2'-Deoxyguanosine 5'-triphosphate, sodium salt  
CAS Number: 93919-41-6  
Formula:  $C_{10}H_{13}N_5O_{13}P_3$  (Anion)  
Molecular weight:  $504.16 \text{ g}\cdot\text{mol}^{-1}$   
Concentration: 100 mM

### dCTP

2'-Deoxycytidine 5'-triphosphate, sodium salt  
CAS Number: 102783-51-7  
Formula:  $C_9H_{13}N_3O_{13}P_3$  (Anion)  
Molecular weight:  $464.13 \text{ g}\cdot\text{mol}^{-1}$   
Concentration: 100 mM

### dTTP

2'-Deoxythymidine 5'-triphosphate, sodium salt  
CAS Number: 18423-43-3  
Molecular formula:  $C_{10}H_{14}N_2O_{14}P_3$  (Anion)  
Molecular weight:  $479.14 \text{ g}\cdot\text{mol}^{-1}$   
Concentration: 100 mM

## Order Information

Prod. No.	Description	Quantity
1910-010	Nucleotide Set 100 mM	4 x 100 µl
1910-011	Nucleotide Set 100 mM	4 x 200 µl
1910-012	Nucleotide Set 100 mM	4 x 1000 µl
1910-012L	Nucleotide Set 100 mM	20 x 1000 µl
1910-012XL	Nucleotide Set 100 mM	40 x 1000 µl
1910-012A	dATP	1000 µl
1910-012C	dCTP	1000 µl
1910-012G	dGTP	1000 µl
1910-012T	dTTP	1000 µl