

Description dNTP mix and dNTP-sets:

dNTP-sets 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)

Components of dNTP-sets:

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: 10 mM

CTP

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: 10 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: 10 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: 10 mM

Order Information

Prod. No.	Description	Quantity
1910-001	Mixture of Nucleotides (dNTP)	200 µl
1910-001L	Mixture of Nucleotides (dNTP)	20 x 200 µl
1910-002	Mixture of Nucleotides (dNTP)	1000 µl
1910-002L	Mixture of Nucleotides (dNTP)	5 x 1000 µl
1910-002XL	Mixture of Nucleotides (dNTP)	10 x 1000 µl
1910-002XXL	Mixture of Nucleotides (dNTP)	20 x 1000 µl