

### dNTP SET MIX

**DESCRIPTION:**

Contains all 4 dNTPs in a pre-mixed solution, ready for immediate use. For procedures requiring unlabeled mixtures of all 4 dNTPs such as PCR or cDNA synthesis.

**PURITY:**

Fisher Molecular Biology's enzymatic dNTP manufacturing process are refined purification protocols ensure highest quality of deoxynucleotides. All our dNTPs are ultrapure (>99%) and quality checked by a set of PCR, RT-PCR and Klenow reactions.

>99% by UV and polysil column chromatography, PCR reaction is successful for the template up to 10 kb length indicating high purity and absence of deleterious terminators

**FS-013-2**                    **DNA Polymerization Mix 10**  
10 mM each dNTP, each 5 µmol volume 500 µl

**FS-013-4**                    **DNA Polymerization Mix 20**  
20 mM each dNTP, each 10 µmol volume 500 µl

### dNTP SET (HIGH CONCENTRATION)

**FS-013-1**

**DESCRIPTION:**

Ready-to-use dNTP solutions are available as tetrasodium salts for use in DNA polymerization reactions and all DNA labelling and sequencing processes.

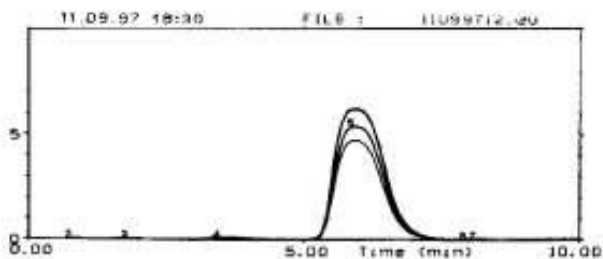
**PACK SIZE:** 25 µmol of each dNTP in a volume of 250 µL

Four separate vials at concentrations of 100 mM.  
The dNTPs are in the form of lithium salts in solution (pH8,5).

**dGTP - dATP - dTTP - dCTP -**

**dGTP**

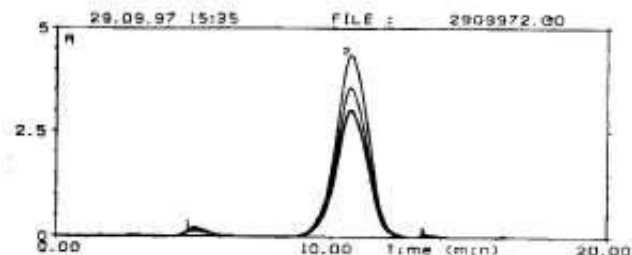
MW: 504,16



dGTP Na<sub>4</sub>\*3H<sub>2</sub>O Deoxyguanosine 5'-triphosphate tetrasodium salt.  
Purity: UV - 99%, column chromatography (polysil) -97.6%  
Integral spectral ratio:  
250/260 - 1.122;  
270/260 - 0.795;  
280/260 - 0.622;  
290/260 - 0.331  
PCR reaction is successful for the template up to 10 kb length.

**dATP**

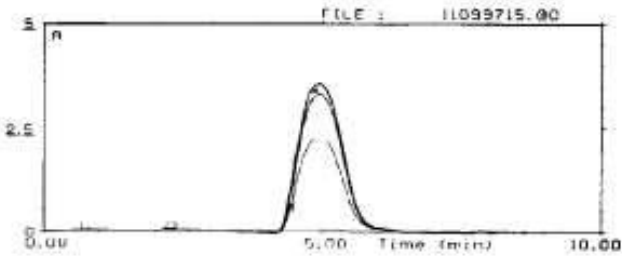
MW: 488,16



dATP Na<sub>4</sub>\*3H<sub>2</sub>O Deoxyadenosine 5'-triphosphate, tetrasodium salt.  
Purity: UV - 97%, column chromatography (polysil) - 97.5%  
Integral spectral ratio:  
250/260 - 0.805;  
270/260 - 0.669;  
280/260 - 0.162  
PCR reaction is successful for the template up to 10 kb

length.

### dTTP



MW: 479,14

dTTP Na<sub>4</sub>\*3H<sub>2</sub>O Deoxythymidine 5'-triphosphate, tetrasodium salt  
Purity: UV - 99%, column chromatography (polysil) - 99.5%

Integral spectral ratio:

250/260 - 0.693;

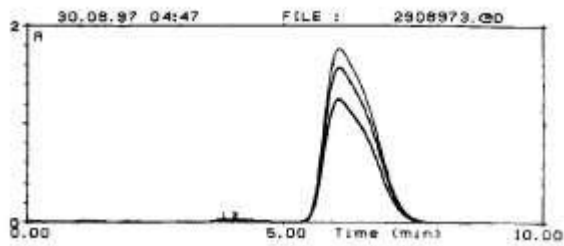
270/260 - 1.082;

280/260 - 0.755;

290/260 - 0.292

PCR reaction is successful for the template up to 10 kb length.

### dCTP



MW:464,13

dCTP Na<sub>4</sub>\*3H<sub>2</sub>O Deoxycytidine 3'-triphosphate, tetrasodium salt  
Purity: UV - 97%, column chromatography (polysil) -96.4%

Integral spectral ratio:

250/260 - 0.854;

270/260 - 1.217;

280/260 - 0.975;

290/260 - 0.355

PCR reaction is successful for the template up to 10 kb length

FS-013-1 4 x 250 µl