

**dNTP Set - 4 × 100 mM**  
**Cat. No: MX4501-100**

## Product Information Leaflet

### Description

MedixMDx deoxynucleotide triphosphate (dNTP) Set contains separately packaged 2'-deoxyadenosine-5'-triphosphate (dATP), 2'-deoxycytidine-5'-triphosphate (dCTP), 2'-deoxyguanosine-5'-triphosphate (dGTP), and 2'-deoxythymidine-5'-triphosphate (dTTP).

The dNTP Set is a clear aqueous solution (pH 8.5) with greater than 99% purity. The solution is free of human and bacterial DNA as well as RNases and DNases. This ensures robust performance and reproducible results. The concentration of each dNTP is 100 mM. The dNTP Set is suitable for a variety of molecular biology applications such as DNA sequencing, DNA labeling, PCR, real-time PCR, long-range PCR, cDNA synthesis, and RT-PCR. The dNTP Set is also suitable for isothermal nucleic acid amplification technologies (iNAATs) such as LAMP, RPA, RCA, SIBA, and NEAR.

### Formula

dATP:  $C_{10}H_{13}N_5O_{12}P_3$  (anion), dCTP:  $C_9H_{13}N_3O_{13}P_3$  (anion), dGTP:  $C_{10}H_{13}N_5O_{13}P_3$  (anion), and dTTP:  $C_{10}H_{14}N_2O_{14}P_3$  (anion).

### Molecular weight

dATP: 488.16 g/mol (anion), dCTP: 464.13 g/mol (anion), dGTP: 504.16 g/mol (anion), and dTTP: 479.14 g/mol (anion).

### Kit components

Component	*MX4501-100 4 X 100 mM
100 mM dATP	1 mL
100 mM dCTP	1 mL
100 mM dGTP	1 mL
100 mM dTTP	1 mL

\*Other pack sizes or bulk orders are available upon request.

### Storage and shipment

Transport with an ice pack or on dry ice (for shipments taking more than 2 days). The reagents should be stored between -30°C and -15°C upon arrival. The reagents are stable for 12 months if stored correctly.

### Technical information and support

For technical enquiries or assay development support, please contact us via e-mail at: [mdx@medixbiochemica.com](mailto:mdx@medixbiochemica.com). Additional information and technical resources are available on our website at: [www.medixbiochemica.com/en/MedixMDx](http://www.medixbiochemica.com/en/MedixMDx).