



NTP Set, NTP Mix

Cat. No. G945, G946

Store at -20 °C.

Product Description

NTP Mix is a ready-to-use aqueous solution containing ATP, CTP, GTP and UTP, each at a final concentration of 25mM. The Mix reduces the number of pipetting steps and the risk of errors.

NTP Set consists of 100mM aqueous solutions of ATP, CTP, GTP and UTP each supplied in a separate vial. Since the ribonucleotides are provided separately, the NTP Set offers maximum flexibility in preparation of reaction mixes for different applications.

Cat. No.	Product Component	Quantity
G945	NTP Mix (ATP, CTP, GTP, and UTP)	1.0 ml (25 mM each)
G946	NTP Set (ATP, CTP, GTP, and UTP)	4 x 250 µl (100 mM each)

General Characteristics

NTP	Formula	Molecular Weight	λ_{max}	ϵ
ATP	$C_{10}H_{13}N_5O_{13}P_3Na_3$	573.1	259 nm	$1.54 \times 10^4 \text{ M}^{-1}\text{cm}^{-1}$ at pH 7.0
CTP	$C_9H_{13}N_3O_{14}P_3Na_3$	549.1	271 nm	$9.1 \times 10^3 \text{ M}^{-1}\text{cm}^{-1}$ at pH 7.0
GTP	$C_{10}H_{13}N_5O_{14}P_3Na_3$	589.2	253 nm	$1.37 \times 10^4 \text{ M}^{-1}\text{cm}^{-1}$ at pH 7.0
UTP	$C_9H_{12}N_2O_{15}P_3Na_3$	550.1	262 nm	$9.6 \times 10^3 \text{ M}^{-1}\text{cm}^{-1}$ at pH 7.0

Usage Notes

- Functionally tested in transcription.
- Purity of each component > 98% by HPLC.
- Endo-, exodeoxyribonuclease and phosphatase free.