

Product: Deoxynucleoside Triphosphate (dNTP) Set

Catalogue No: CB-4420-2 4 x 25µmol
CB-4420-4 4 x 100µmol
CB-4420-6 4 x 500µmol

Description: The 4 dNTPs are supplied separately in 250µl volume in caps coloured differently to assist with identification for dATP, dCTP, dGTP and dTTP. The concentration is such as to provide 25µmol of each dNTP, at the neutral pH, 7.0.

Storage and stability: dNTP Sets should be stored at -20°C or -70°C, in a constant-temperature freezer. Since repeated melting and refreezing could be detrimental, it is advisable, if the batch is likely to be in use for a long time, to make up a number of aliquot parts while the product is in liquid form.

Typical Analysis: Lithium salts, >99% deoxynucleoside triphosphates (HPLC, area %), <1% deoxynucleoside monophosphates and deoxynucleoside diphosphates.

dNTP Characteristics:	Deoxynucleotide	Molecular Weight	Molar Extinction
	dATP	535.2	1µmol = 15,3 A ₂₆₀ units
	dGTP	533.2	1µmol = 13,7 A ₂₅₂ units
	dCTP	511.1	1µmol = 9,6 A ₂₇₂ units
	dTTP	505.9	1µmol = 8,4 A ₂₆₀ units

Application: For research which requires DNA sequencing or labeling or for synthesizing DNA *in vitro*.

Master Mix Method for DNA synthesis

Equal quantities of solution are extracted from each of the 4-dNTP vials, and pipetted into a microcentrifuge tube for mixing, so as to produce a 25mM final concentration for each. This is equivalent to 100x working concentration.

Storage temperature: Store at -20°C

Batch details: Concentration: 100mM each
Presentation: 250 µl per tube
Batch No: See vial

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This certificate is a declaration of analysis at the time of manufacture