



Product Insert
50mM dUTP Mix

Research Use Only

Product:

dUTP Mix, ready to use

Description:

A 50x concentrated mix of dATP, dGTP, dCTP, and dUTP, (pH 7.0). Each 25µmol dUTP Mix product contains: 5 µmol of dATP, dGTP and dCTP, and 10 µmol dUTP

Catalogue No. :

BIO-39041

Presentation / Batch details:

A 25 µmol mix containing:
5 µmol of each dATP, dCTP, dGTP and 10 µmol dUTP
Concentration: 50 mM (total dNTP's)
Volume: 500 µl
Batch No: See vial

Application:

For direct use in DNA sequencing, labelling and *in vitro* DNA synthesis. Pre-mixed to provide a 3:1 dUTP:dNTP ratio, for ideal incorporation of dUTP by DNA polymerases. Use 1.3µl per 50µl reaction.

dUTP Characteristics:

Deoxynucleotide	Molecular Weight	Molar Extinction
dATP	491.2	1 µmol = 15,3 A ₂₆₀ units
dGTP	507.2	1 µmol = 13,7 A ₂₅₂ units
dCTP	467.2	1 µmol = 9,6 A ₂₇₂ units
dUTP	468.2	1 µmol = 9,8 A ₂₆₂ units

Typical Analysis:

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

Storage and stability:

Store the Mix at -20°C or -70°C in a constant temperature freezer. Avoid multiple freezing/thawing. For long-term usage, aliquoting is recommended.

Associated products

Product Name	Pack Size	Cat No
Uracil DNA Glycosylase (UNG)	500 units	BIO-27044
dNTP Mix 100mM total	1 x 500 µl	BIO-39028
40mM total	1 x 500 µl	BIO-39043
dNTP Set	4 x 25µmol	BIO-39025
Hyper Ladder I	200 lanes	BIO-33025
	500 lanes	BIO-33026
Agarose	500g	BIO-41025

This product contains a declaration of analysis at the time of manufacture