

Data Sheet (16.07.2017)

Atto655-dUTP

Aminoallyl-dUTP - ATTO-655

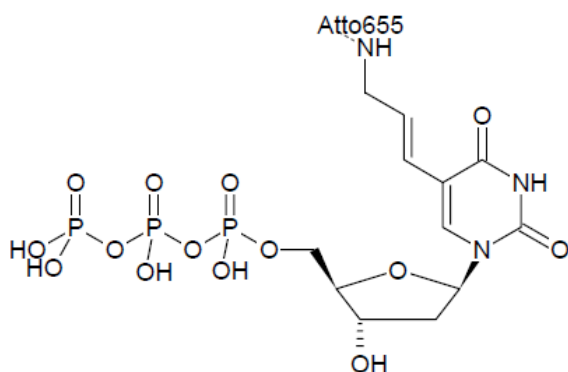
Cat.-No.	Amount.	Conc.
mi-N1308S-655	10 µl	1 mM
mi-N1308L-655	5 x 10 µl	1 mM

For research use only! Only for in vitro use!

mi-Atto655-dUTP

1 mM 5-(3-aminoallyl)-2'-deoxy-uridine-5'-triphosphate labeled with Atto655, triethylammonium salt

Structure

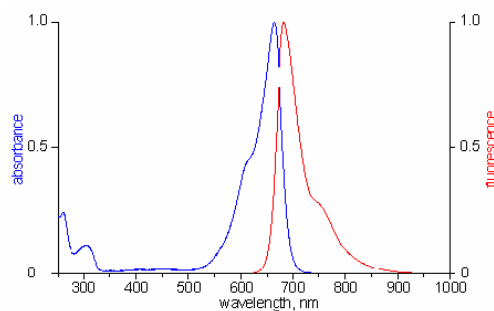


Spectroscopic data

Excitation maximum: Ex = 663 nm

Emission maximum: Em = 684 nm

Extinction coefficient: 120,000 cm⁻¹ M⁻¹



Atto655 excitation and emission spectra

Description

Atto655-dUTP is recommended for direct enzymatic labeling of DNA. The dye-dUTP is specially optimized for incorporation into DNA by PCR using *Taq* Polymerase.

In PCR labeling, repeated cycles of denaturation, annealing and extension allow the amplification of a specific DNA fragment. When dTTP is partially substituted by dye-dUTP a fluorescent labeled doublestranded DNA is generated.

The resultant DNA is suited for application in FISH, microarray gene expression profiling and other nucleic acid hybridization assays.

Recommended concentrations in PCR

Component	Final conc.
dATP; dCTP; dGTP	100 µM each
dTTP	50 µM
Atto655-dUTP	50 µM ¹⁾
forward Primer	500 nM
reverse Primer	500 nM
Template DNA	5-500 pg/ µl

1) The optimal final concentration of the labeled nucleotide may vary depending on the application.

pH: 7,5 ± 0,5

Purity (HPLC): ≥ 95 %

Storage conditions: - 20 ± 5°C (dark)