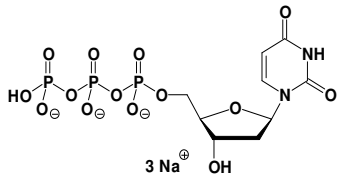
DIN EN ISO 9001:2000 CERTIFIED

DATA SHEET

dUTP, PCR Grade

2'-Deoxyuridine 5'-triphosphate, sodium salt

Cat.-No.	Volume	Amount	Conc.
NU-1008	1 ml	100 µmol	100 mM

Description	dUTP, PCR Grade is supplied as ultrapure aqueous solution and suitable for all molecular biology applications including PCR/qPCR, reverse transcription, DNA labeling and DNA sequencing. dUTP can be used in place of dTTP in PCR and RT-PCR protocols to prevent carry-over contaminations from previous amplifications.
CAS Number	102814-08-4
Formula (Anion)	$C_9H_{12}N_2O_{14}P_3$
Molecular Weight	465.12 g·mol^{-1}
Storage	Store at -20°C, short term (up to one week) exposure to ambient temperature possible
Stability	Quality guaranteed for 12 months
Structure	

Biophysical Specifications

Appearance	clear colorless solution
Concentration (22°C, pH 7.0)	100-110 mM ($A_{262\ nm}$, ε = 9.8 l·mmol^{-1}·cm^{-1})
$A_{250\ nm}$ / $A_{260\ nm}$ (22°C, pH 7.0)	0.74 ± 0.02
$A_{280\ nm}$ / $A_{260\ nm}$ (22°C, pH 7.0)	0.38 ± 0.02
$A_{290\ nm}$ / $A_{260\ nm}$ (22°C, pH 7.0)	0.04 ± 0.02
pH (4°C)	8.5 ± 0.1
Purity (HPLC area)	dUTP ≥ 99.0% dUDT ≤ 0.9% dUMP ≤ 0.5%

Functional Specifications

Low Copy PCR (1 kb, lambda DNA, template dilution series)	PCR fragment with 100 pg of template or less
Contamination with bacterial or human DNA	not detectable
DNases, RNases, Nicking Activity	not detectable
Proteases	not detectable

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