

BIOSAN,  
28, Ingenernaya Str.  
630090, Novosibirsk, Russia  
tel.: +7(383) 363-51-91, 363-22-40  
fax: +7(383) 363-51-91  
[mail@biosan-nsk.ru](mailto:mail@biosan-nsk.ru)  
[www.biosan-nsk.ru](http://www.biosan-nsk.ru)



## DATA QUALITY SHEET

### 7-deaza-dGTP

7-deaza-2'-deoxyguanosine-5'-triphosphate, ammonium salt

FOR RESEARCH USE ONLY

#### Description

7-deaza-dGTP may be effectively incorporated into the DNA by DNA polymerases and/or terminal deoxynucleotidyl transferase. 7-deaza-dG - containing DNA duplexes demonstrate increased stability, 7-deaza-dG - containing DNA penetrates cell membrane more effectively due to the increased lipophilicity.

7-deaza dGTP may be used in sequencing for the resolution of the compressions in G-C-rich regions. Amplification of some DNA regions is often hindered due to the high G-C content. Replacement of dGTP to 7-deaza dGTP in the master mix may solve the problems.

#### Delivery form

Sterile water solution of ammonium salt nucleotide. Colorless transparent liquid.

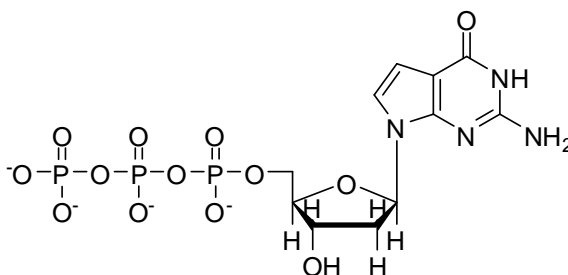
#### Concentration

0.1 M

#### Quality control

- Purity according to HPLC analysis is not less than 96%.
- Product is free of DNases, RNases and phosphatases activities.
- The concentration is determined spectrophotometrically,  $\lambda_{\max} = 259$  nm.
- pH = 5.0-5.5

#### Structural formula (free acid)



#### Formula

$C_{11}H_{13}N_4O_{13}P_3^{4-}$

#### Molecular weight

502.16 g/mol

#### Storage

-20°C. Avoid multiple freezing-thawing.

#### Transportation

The product does not require special conditions of transportation.