

DATA SHEET

Version: 2
Revision date: 12/04/2023

1. Identification

Product name	TruePure™ dNTP Set (100 mM) 4 x 0.2 mL
Cat. No	N0098-S

2. Description

dNTP set includes 4 vials, a separate vial of each dNTP (dATP, dCTP, dGTP, dTTP). Each dNTP are in aqueous solution at 100 mM.

3. Specifications

dATP**Formula:** C₁₀H₁₆N₅O₁₂P₃**Molecular Weight:** 491.18 g/mol**λ_{max} pH 7.0** = 259 nm**ε at λ_{max}, pH 7.0** = 15.4 mmol⁻¹ cm⁻¹**Concentration:** 100 mM**Purity:** > 99% confirmed by HPLC**dCTP****Formula:** C₉H₁₆N₃O₁₃P₃**Molecular Weight:** 467.15 g/mol**λ_{max} pH 7.0** = 271 nm**ε at λ_{max}, pH 7.0** = 8.9 mmol⁻¹ cm⁻¹**Concentration:** 100 mM**Purity:** > 99% confirmed by HPLC**dGTP****Formula:** C₁₀H₁₆N₅O₁₃P₃**Molecular Weight:** 507.18 g/mol**λ_{max} pH 7.0** = 252 nm**ε at λ_{max}, pH 7.0** = 13.7 mmol⁻¹ cm⁻¹**Concentration:** 100 mM**Purity:** > 99% confirmed by HPLC**dTTP****Formula:** C₁₀H₁₇N₂O₁₄P₃**Molecular Weight:** 482.17 g/mol**λ_{max} pH 7.0** = 267 nm**ε at λ_{max}, pH 7.0** = 9.6 mmol⁻¹ cm⁻¹**Concentration:** 100 mM**Purity:** > 99% confirmed by HPLC**Quality Control Specifications:**

- 18 kb long range PCR (template dilution series from 20 to 1000 pg): suitable
- Contamination with bacterial and human DNA: not detectable
- Activity of DNase, Protease or Phosphatase: not detectable

4. Storage specifications

Store at -20°C, short term (up to one week) exposure to ambient temperature is possible.

5. Applications

For use in all molecular biology applications:

- PCR
- Real-time PCR
- High fidelity and long PCR
- cDNA synthesis
- RT-PCR
- DNA sequencing.

The synthesis of a complementary DNA/cDNA strand by enzymatic polymerization of deoxynucleotide triphosphates (dNTPs) is the basic principle of DNA amplification, sequencing and cDNA synthesis techniques.



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6. Further information

- Product Use Limitations** This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.
- Disclaimer** The information provided in this Data Sheet is correct to the best of our knowledge and belief at the date of publication. This information is intended only as a guide and should not be taken as a warranty or quality specification. Canvax Reagents S.L.U. shall not be held liable for any damage resulting from handling or from contact with the above product.

