

dU plus dNTP Mixture (12.5X)

Code No. 4035 **Size:** **800 μ l**
Conc.: **12.5X**

* 2 years from date of receipt under proper storage conditions.

Description :

This product is a mixture of dATP, dCTP, dGTP (each 2.5 mM), and dUTP (7.5 mM).

Form : Solution (sodium salt), pH 7 - 9

Storage: -20°C

Purity: each \geq 98%

Usage :

- Use for PCR reaction with the Pol I-type DNA polymerase such as *TaKaRa Taq*[™] (Cat. #R001A/B) or *TaKaRa Taq Hot Start Version* (Cat. #R007A/B).
- For example, use 4 μ l of this product for 50 μ l of PCR reaction with *TaKaRa Taq Hot Start Version*.

[Note]

- Because α -type DNA polymerase possessing the 3' \rightarrow 5' exonuclease activity may bind the uracil-containing template and cause the PCR inhibition, it is not recommended to use this product with α -type DNA polymerase or PCR enzyme blend with α -type DNA polymerase.
- When performing PCR with dUTP instead of dTTP, a good result may be obtained by using a 2 - 3 fold higher concentration of dUTP than that of dTTP. Additionally, it is necessary to raise the MgCl₂ concentration.¹⁾

PCR test :

Good performance of DNA amplification by *TaKaRa Taq Hot Start Version* was confirmed by using λ DNA as a template. (amplified fragment: 8 kb)

Reference :

Wang, X, *et al.* Prevention of carryover contamination in the detection of beta S and beta C genes by polymerase chain reaction. *Am J Hematol.* (1992) **40**: 146-148.

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Note

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