

# dU plus dNTP Mixture (12.5X)

**Code No. 4035**                      **Size:**                      **800  $\mu$ 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*<sup>™</sup> (Cat. #R001A/B) or *TaKaRa Taq* Hot Start Version (Cat. #R007A/B).
- For example, use 4  $\mu$ l of this product for 50  $\mu$ l of PCR reaction with *TaKaRa Taq* Hot Start Version.

## [Note]

- Because  $\alpha$ -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  $\alpha$ -type DNA polymerase or PCR enzyme blend with  $\alpha$ -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 MgCl<sub>2</sub> concentration.<sup>1)</sup>

## PCR test :

Good performance of DNA amplification by *TaKaRa Taq* Hot Start Version was confirmed by using  $\lambda$  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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