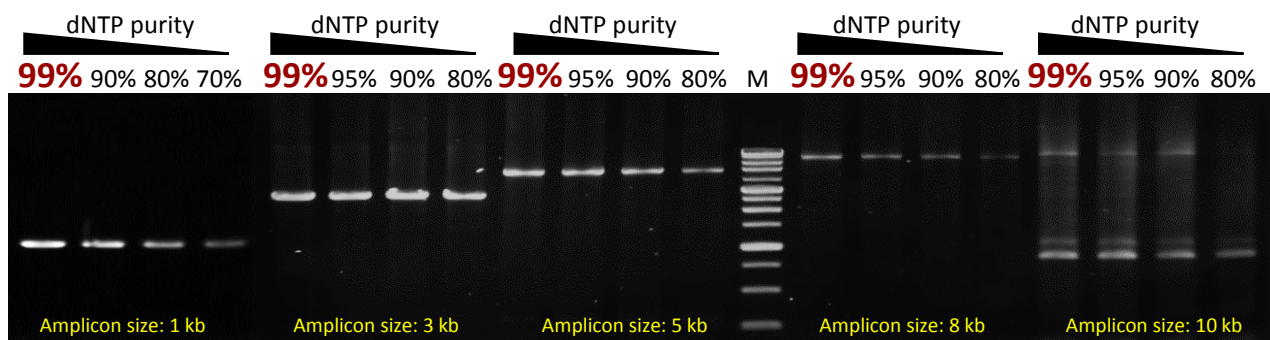


# Purity of dNTPs–

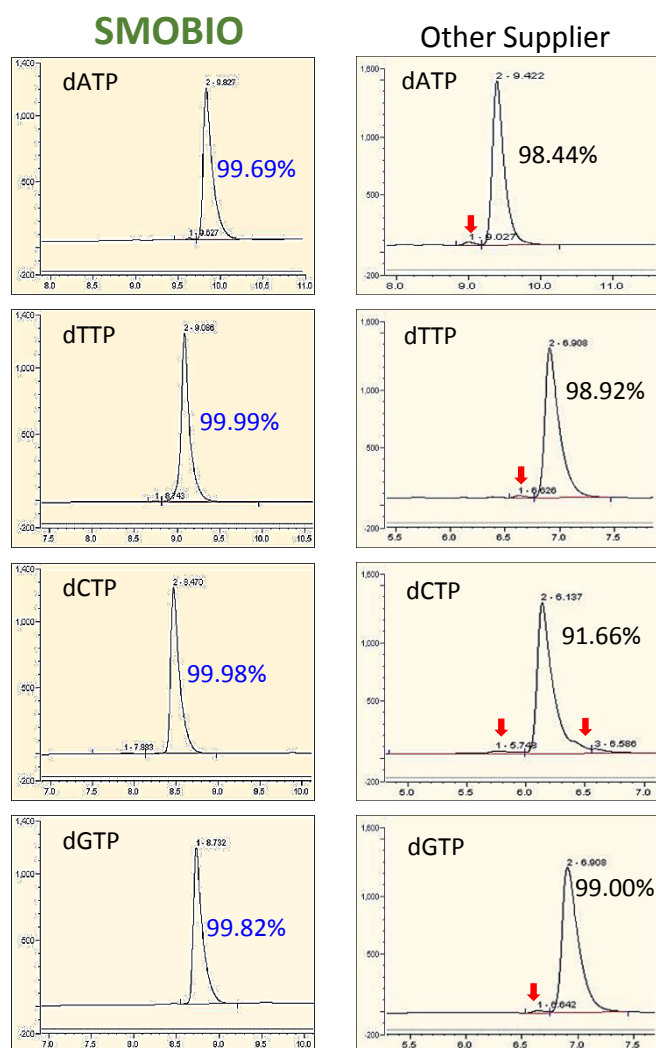
## A Critical Factor for Successful PCR

*Higher than 99% purity of dNTPs shows robust DNA amplification.*

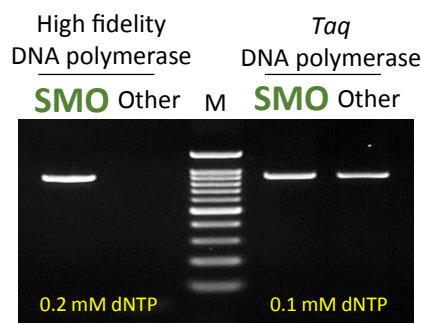


**Fig. 1. Purity of dNTPs is crucial for PCR amplification.** Varied purity of dNTP mix was tested with different length of amplicons.

*SMOBIO offers greater than 99% purity of dNTPs to yield optimal results.*



**Fig. 2. SMOBIO's dNTPs shows greater than 99% purity using HPLC analysis.** Impurity of dNTPs from other supplier was detected and indicated with arrows.



**Fig. 3. Impurity or residual PCR inhibitors in dNTP mix suppress DNA amplification.** High fidelity DNA polymerase, which is highly sensitive to PCR inhibitors, was completely failed in amplification using dNTP mix from other supplier. DNA amplification using Taq DNA polymerase and dNTP mix from other supplier was slightly reduced compared to dNTP mix from SMOBIO.

### Ordering information

Cat. No.	Product Description
CD3000	dATP Solution - Sodium Salt (100 mM)
CD4000	dTTP Solution - Sodium Salt (100 mM)
CD5000	dCTP Solution - Sodium Salt (100 mM)
CD6000	dGTP Solution - Sodium Salt (100 mM)
CD7000	dUTP Solution - Sodium Salt (100 mM)



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[order@smobio.com](mailto:order@smobio.com)  
 For more details, please check following link  
<https://www.smobio.com/shop?&search=CD>