



**SMOBIO**

Small Bio, Smart Tool

[www.smobio.com](http://www.smobio.com)

## Product information

SMOChem™ Series

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### Deoxynucleotide (dNTP) Mix

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**CD1020** 25 mM each (100 mM total) 500 µl x1

**CD1021** 25 mM each (100 mM total) 500 µl x6

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### Storage

-20°C for 24 months

### Features

- Ideal for PCR amplification and cDNA synthesis
- Premixed solution
- Nuclease and ribonuclease free

## **Description**

The SMOChem™ Deoxynucleotide (dNTP) Mix is an aqueous solution that contains an equimolar solution of ultrapure dATP, dCTP, dGTP and dTTP, each at a concentration of 25 mM at pH 8.5. The dNTP Mix is designed for many different molecular biology applications that involved in DNA synthesis or labeling, such as PCR, real-time PCR, DNA sequencing, reverse transcription, primer extension, and etc. The dNTP Mix is free of exo-deoxyribonuclease and endo-deoxyribonuclease as well as ribonuclease activity. The dNTP Mix offers the possibility to reduce the number of pipetting steps and the risk of reaction set up errors.

## **Applications**

- PCR amplification of DNA fragments
- DNA fill-in reaction
- DNA sequencing
- Reverse transcription
- One-step RT-PCR

## Quality Control

Method	Specification	Result
Purity assay (HPLC)	≥ 99%	Pass
Nuclease activity	None detectable	Pass
Ribonuclease activity	None detectable	Pass
Functional assay 1 (PCR)	amplify a 665 bp target	Pass
Functional assay 2 (PCR)	amplify a 20 kb target	Pass

## Other Information

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Caution: Not intended for human or animal diagnostic or therapeutic uses.

## Related Products

CK1000	Champion E. coli Transformation Kit
CV1100	GetClone PCR Cloning Vector II, 20 RXN
DM2100	ExcelBand 100 bp DNA Ladder, 500 µl
DM2300	ExcelBand 100 bp+3K DNA Ladder, 500 µl
RP1000	ExcelRT Reverse Transcriptase, 20,000 U
RP1100	ExcelRT One-Step RT-PCR Kit, 50 RXN
RP1300	ExcelRT Reverse Transcription Kit, 100 RXN
RP1400	ExcelRT Reverse Transcription Kit II, 100 RXN
TF1000	SMO-HiFi DNA Polymerase, 100 U
TF3000	G-HiFi DNA Polymerase, 100 U
TK1000	ExcelTaq Klen-Taq DNA Polymerase, 500 U
TP1000	ExcelTaq DNA Polymerase, 500 U
TP1100	ExcelTaq 5X PCR Master Mix, 200 RXN
TP1200	ExcelTaq 5X PCR Master Dye Mix, 200 RXN
TP2000	ExcelTaq Blood Direct DNA Polymerase, 500 U
TP2100	ExcelTaq Blood Direct PCR Master Mix Kit, 200 RXN
TP5000	ExcelTaq Hot Start II DNA Polymerase, 500 U

The latest version of the manual can be downloaded from [www.smobio.com/shop](http://www.smobio.com/shop).