

Product information

SMOChem™ Series

Deoxynucleotide (dNTP) Mix

CD1020	25 mM each (100 mM total)	500 µl x1
CD1021	25 mM each (100 mM total)	500 µl x6

Storage

-20°C for 36 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)	$\geq 99\%$	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.