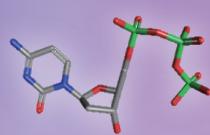


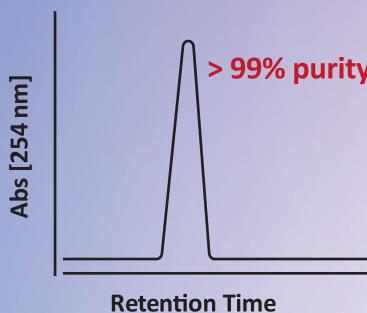
DNA building blocks

Deoxynucleotide (dNTP)

Large Quantity, High Quality



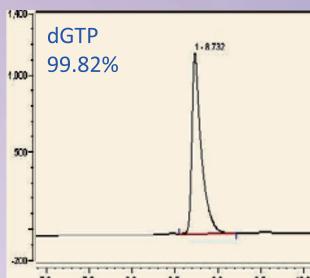
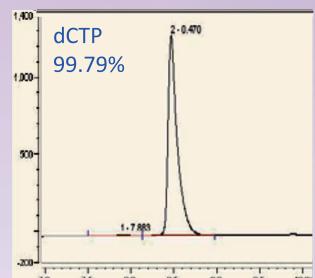
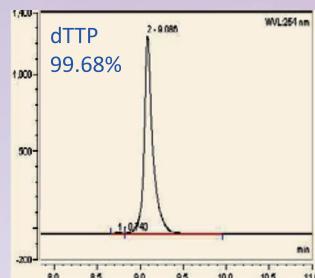
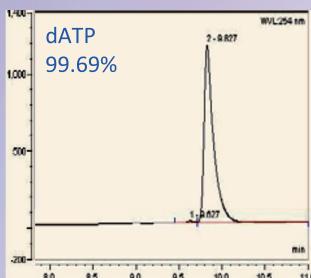
Cat. No.	Product Description
CD1010	Deoxynucleotide (dNTP) Mix, 10 mM each (40 mM total), 200 µl
CD1020	Deoxynucleotide (dNTP) Mix, 25 mM each (100 mM total), 500 µl
CD3000	dATP Solution - Sodium Salt (100 mM), 25 ml
CD3001	dATP Solution - Sodium Salt (100 mM), 100 ml
CD4000	dTTP Solution - Sodium Salt (100 mM), 25 ml
CD4001	dTTP Solution - Sodium Salt (100 mM), 100 ml
CD5000	dCTP Solution - Sodium Salt (100 mM), 25 ml
CD5001	dCTP Solution - Sodium Salt (100 mM), 100 ml
CD6000	dGTP Solution - Sodium Salt (100 mM), 25 ml
CD6001	dGTP Solution - Sodium Salt (100 mM), 100 ml



Specification

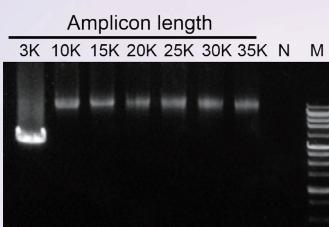
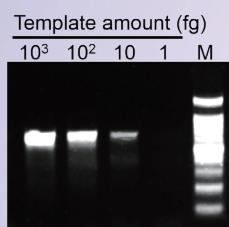
Product Name	dATP Solution - Sodium Salt (100 mM)	dTTP Solution - Sodium Salt (100 mM)	dCTP Solution - Sodium Salt (100 mM)	dGTP Solution - Sodium Salt (100 mM)
Cat. No.	CD3000	CD4000	CD5000	CD6000
Nomenclature	2'-Deoxyadenosine 5'-triphosphate	2'-Deoxythymidine 5'-triphosphate	2'-Deoxycytidine 5'-triphosphate	2'-Deoxyguanosine 5'-triphosphate
Formula (Anion)	<chem>C10H13N5O12P3</chem>	<chem>C10H14N2O14P3</chem>	<chem>C9H13N3O13P3</chem>	<chem>C10H13N5O13P3</chem>
Storage	at -20 °C	at -20 °C	at -20 °C	at -20 °C
Stability	24 months	24 months	24 months	24 months
Appearance	Colorless	Colorless	Colorless	Colorless
Concentration	100-110mM	100-110mM	100-110mM	100-110mM
Purity (HPLC)	≥ 99%	≥ 99%	≥ 99%	≥ 99%
A250/A260	0.78±0.02	0.64±0.02	0.82±0.02	1.15±0.03
A280/A260	0.15±0.01	0.74±0.02	0.97±0.02	0.67±0.02
A290/A260	N/A	0.24±0.02	0.30±0.02	0.28±0.02
pH (25°C)	7.5±0.1	7.5±0.1	7.5±0.1	7.5±0.1
Cations (Mg^{2+})	≤ 5 mM	≤ 5 mM	≤ 5 mM	≤ 5 mM
Phosphate (PO_4^{3-})	≤ 2 mM	≤ 2 mM	≤ 2 mM	≤ 2 mM
DNases Activity	Negative	Negative	Negative	Negative
RNases Activity	Negative	Negative	Negative	Negative
Nicking Activity	Negative	Negative	Negative	Negative
Proteases Activity	Negative	Negative	Negative	Negative
General PCR	10 fg plasmid DNA			
Long Range PCR	Up to 35 kb			
RT-PCR	10 pg RNA	10 pg RNA	10 pg RNA	10 pg RNA
Real-time PCR	0.2 pg cDNA	0.2 pg cDNA	0.2 pg cDNA	0.2 pg cDNA

Purity assay-HPLC

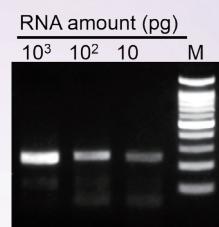


Functional assay

General PCR - Amplification of DNA fragment using ExcelTaq™ Taq DNA polymerase from 1 pg to 1 fg plasmid DNA in a 50 µl PCR reaction.



Long Range PCR - Amplification of 3 to 35 kb DNA fragment using G-HiFi™ DNA polymerase from 50 ng lambda DNA in a 50 µl PCR reaction.



RT-PCR - Amplification of DNA fragment from cDNA synthesized using ExcelRT™ Reverse Transcriptase from 1 ng to 10 pg of RNA.

Real-time PCR - Amplification of DNA fragment using ExcelTaq™ 2X Fast Q-PCR Master Mix from 20 ng to 0.2 pg cDNA in a 20 µl qPCR reaction.

