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10X CutEZ™ Buffer

产品编号	产品名称	包装
D6018	10X CutEZ™ Buffer	5ml

产品简介：

- 碧云天生产的10X CutEZ™ Buffer是一种能让超过200种限制性内切酶的活性达到100%的缓冲液。使用CutEZ™ Buffer，可以免去内切酶酶切时选择buffer的麻烦，特别是在双酶切时会变得更加简单易行。此外，许多DNA修饰酶在CutEZ™ Buffer中也保留了100%酶活性，这样在酶切后进行DNA修饰酶处理就无需进行DNA纯化了。
- 各种内切酶和修饰酶在1X CutEZ™ buffer中的活性，请参考附录1和附录2。
- 不同来源的限制性内切酶对于CutEZ™ Buffer的兼容性可能略有不同。
- 1X CutEZ™ Buffer的组分为50 mM Potassium acetate, 20 mM Tris-acetate, 10 mM Magnesium acetate, 100 μg/ml BSA, pH 7.9 @ 25°C，与NEB公司的CutSmart™ Buffer完全一致。
- 一个包装的本产品，如果用于20μl的酶切反应体系，共可以用于2500个酶切反应。

包装清单：

产品编号	产品名称	包装
D6018	10X CutEZ™ Buffer	1ml×5
—	说明书	1份

保存条件：

-20ºC保存。

注意事项：

- 使用前，反应缓冲液应彻底融化并混匀。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明：

1. 根据酶切反应体系加入总体积1/10的10X CutEZ™ Buffer，使其终浓度为1X，待所有组分都加入完毕，混匀后即可置于适当的温度中进行酶切反应。

附录1：

常用限制性内切酶在 CutEZ™ Buffer 中的活性和效能表如下：

Enzyme	Sequence	% Activity in CutEZ™	Heat Inac.	Incu. Temp.	Dam	Dcm	CpG	Unit Substrate
AatII	GACGT/C	100	80°C	37°C	●	●	■	λ DNA
Acc65I	G/GTACC	25	65°C	37°C	●	□ scol	□ scol	pBC4 DNA
AccI	GT/MKAC	100	80°C	37°C	●	●	□ ol	λ DNA
AciI	CCGC(-3/-1)	100	65°C	37°C	●	●	■	λ DNA
AclI	AA/CGTT	100	No	37°C	●	●	■	λ DNA
AcuI	CTGAAG(16/14)	100	65°C	37°C	●	●	●	λ DNA
AfeI	AGC/GCT	100	65°C	37°C	●	●	■	pXba DNA
AflII	C/TTAAG	100	65°C	37°C	●	●	●	ΦX174 RF I DNA
AflIII	A/CRYGT	50	80°C	37°C	●	●	●	λ DNA
AgeI	A/CCGGT	75	65°C	37°C	●	●	■	λ DNA
AhdI	GACNNN/NNGTC	100	65°C	37°C	●	●	◊ scol	λ DNA
AleI	CACNN/NNGTG	100	80°C	37°C	●	●	◊ scol	λ DNA
AluI	AG/CT	100	80°C	37°C	●	●	●	λ DNA
AlwI	GGATC(4/5)	100	No	37°C	■	●	●	λ DNA (dam-)
AlwNI	CAGNNN/CTG	100	80°C	37°C	●	□ ol	●	λ DNA

ApaI	GGGCC/C	100	65°C	25°C	●	□ ol	□ ol	pXba DNA
ApaLI	G/TGCAC	100	No	37°C	●	●	□ ol	λ DNA/HindIII
ApeKI	G/CWGC	10	No	75°C	●	●		λ DNA
ApoI	R/AATTY	75	80°C	50°C	●	●	●	λ DNA
AscI	GG/CGCGCC	100	80°C	37°C	●	●	■	λ DNA
AseI	AT/TAAT	10	65°C	37°C	●	●	●	λ DNA
AsiSI	GCGAT/CGC	100	80°C	37°C	●	●	■	pXba/XhoI
AvaI	C/YCGRG	100	80°C	37°C	●	●	■	λ DNA
AvaII	G/GWCC	100	80°C	37°C	●	□ ol	□ ol	λ DNA
AvrII	C/CTAGG	100	No	37°C	●	●	●	λ DNA/HindIII
BaeI	(10/15)ACNNNNGTAYC(12/7)	100	65°C	25°C	●	●	□ scol	pXba DNA
BamHI	G/GATCC	100*	No	37°C	●	●	●	λ DNA
BanI	G/GYRCC	100	65°C	37°C	●	□ scol	□ scol	λ DNA
BanII	GRGCY/C	100	80°C	37°C	●	●	●	λ DNA
BbsI	GAAGAC(2/6)	75	65°C	37°C	●	●	●	λ DNA
BbvCI	CCTCAGC(-5/-2)	100	No	37°C	●	●	◊ ol	λ DNA
BbvI	GCAGC(8/12)	100	65°C	37°C	●	●	●	pBR322 (dcm+) DNA
BccI	CCATC(4/5)	100	65°C	37°C	●	●	●	pXba DNA
BceAI	ACGGC(12/14)	100*	65°C	37°C	●	●	■	pBR322 (dcm+) DNA
BcgI	(10/12)CGANNNNNNTGC(12/10)	50*	65°C	37°C	◊ ol	●	□ scol	λ DNA
BciVI	GTATCC(6/5)	100	80°C	37°C	●	●	●	λ DNA
BclI	T/GATCA	75	No	50°C	■	●	●	λ DNA (dam-)
BfaI	C/TAG	100	80°C	37°C	●	●	●	λ DNA
BfuAI	ACCTGC(4/8)	10	65°C	50°C	●	●	◊ ol	λ DNA
BglI	GCCNNNN/NGGC	10	65°C	37°C	●	●	□ scol	λ DNA
BglII	A/GATCT	10	No	37°C	●	●	●	λ DNA
BlpI	GC/TNAGC	100	No	37°C	●	●	●	λ DNA
BmgBI	CACGTC(-3/-3)	10	65°C	37°C	●	●	■	λ DNA
BmrI	ACTGGG(5/4)	100*	65°C	37°C	●	●	●	λ DNA/HindIII
BmtI	GCTAG/C	100	65°C	37°C	●	●	●	pXba DNA
BpmI	CTGGAG(16/14)	100	65°C	37°C	●	●	●	λ DNA
Bpu10I	CCTNAGC(-5/-2)	25	80°C	37°C	●	●	●	λ DNA
BpuEI	CTTGAG(16/14)	100	65°C	37°C	●	●	●	λ DNA
BsaAI	YAC/GTR	100	No	37°C	●	●	■	λ DNA
BsaBI	GATNN/NNATC	100	80°C	60°C	□ ol	●	□ scol	λ DNA (dam-)
BsaHI	GR/CGYC	100	80°C	37°C	●	□ scol	■	λ DNA
BsaI	GGTCTC(1/5)	100	65°C	37°C	●	◊ scol	□ scol	pXba DNA
BsaJI	C/CNNGG	100	80°C	60°C	●	●	●	λ DNA
BsaWI	W/CCGGW	100	80°C	60°C	●	●	●	λ DNA
BsaXI	(9/12)ACNNNNNCTCC(10/7)	100	No	37°C	●	●	●	λ DNA
BseRI	GAGGAG(10/8)	100	80°C	37°C	●	●	●	λ DNA
BseYI	CCCAGC(-5/-1)	50	80°C	37°C	●	●	□ ol	λ DNA
BsgI	GTGCAG(16/14)	100	65°C	37°C	●	●	●	λ DNA
BsiEI	CGRY/CG	100	No	60°C	●	●	■	λ DNA
BsiHKAI	GWGCW/C	100	No	65°C	●	●	●	λ DNA
BsiWI	C/GTACG	25	65°C	55°C	●	●	■	ΦX174 DNA
BslI	CCNNNNN/NNGG	100	No	55°C	●	□ scol	□ scol	λ DNA
BsmAI	GTCTC(1/5)	100	No	55°C	●	●	□ scol	λ DNA
BsmBI	CGTCTC(1/5)	25	80°C	55°C	●	●	■	λ DNA
BsmFI	GGGAC(10/14)	100	80°C	65°C	●	□ ol	□ ol	pBR322 (dcm+) DNA
BsmI	GAATGC(1/-1)	100	80°C	65°C	●	●	●	λ DNA
BsoBI	C/YCGRG	100	80°C	37°C	●	●	●	λ DNA

Bsp1286I	GDGCH/C	100	65°C	37°C	●	●	●	λ DNA
BspCNI	CTCAG(9/7)	100	80°C	25°C	●	●	●	λ DNA
BspDI	AT/CGAT	100	80°C	37°C	□ ol	●	■	λ DNA
BspEI	T/CCGGA	10	80°C	37°C	□ ol	●	♦	λ DNA (dam-)
BspHI	T/CATGA	100	80°C	37°C	◊ ol	●	●	λ DNA
BspMI	ACCTGC(4/8)	10	65°C	37°C	●	●	●	λ DNA
BspQI	GCTCTTC(1/4)	100	80°C	50°C	●	●	●	λ DNA
BsrBI	CCGCTC(-3/-3)	100	80°C	37°C	●	●	□ scol	λ DNA
BsrDI	GCAATG(2/0)	25	80°C	65°C	●	●	●	λ DNA
BsrFI	R/CCGGY	100	No	37°C	●	●	■	pBR322 (dcm+) DNA
BsrGI	T/GTACA	25	80°C	37°C	●	●	●	λ DNA
BsrI	ACTGG(1/-1)	10	80°C	65°C	●	●	●	ΦX174 RF I DNA
BssHII	G/CGCGC	100	65°C	50°C	●	●	■	λ DNA
BssKI	/CCNGG	100	80°C	60°C	●	□ ol	□ ol	λ DNA
BssSI	CACGAG(-5/-1)	50	80°C	37°C	●	●	●	λ DNA
BstAPI	GCANNNN/NTGC	100	80°C	60°C	●	●	□ scol	λ DNA
BstBI	TT/CGAA	100	No	65°C	●	●	■	λ DNA
BstEII	G/GTNACC	75*	No	60°C	●	●	●	λ DNA
BstNI	CC/WGG	75	No	60°C	●	●	●	λ DNA
BstUI	CG/CG	100	No	60°C	●	●	■	λ DNA
BstXI	CCANNNNN/NTGG	25	80°C	37°C	●	□ scol	●	λ DNA
BstYI	R/GATCY	100	No	60°C	●	●	●	λ DNA
BstZ17I	GTA/TAC	100	No	37°C	●	●	□ scol	λ DNA
Bsu36I	CC/TNAGG	100	80°C	37°C	●	●	●	λ DNA/HindIII
BtgI	C/CRYGG	100	80°C	37°C	●	●	●	pBR322 (dcm+) DNA
BtgZI	GCGATG(10/14)	100	80°C	60°C	●	●	♦	λ DNA
BtsCI	GGATG(2/0)	100	80°C	50°C	●	●	●	λ DNA
BtsI	GCAGTG(2/0)	100	80°C	55°C	●	●	●	λ DNA
Cac8I	GCN/NGC	100	65°C	37°C	●	●	□ scol	λ DNA
ClaI	AT/CGAT	100	65°C	37°C	□ ol	●	■	λ DNA (dam-)
CspCI	(11/13)CAANNNNNGTGG(12/10)	100	65°C	37°C	●	●	●	λ DNA
CviAII	C/ATG	100	65°C	25°C	●	●	●	λ DNA
CviKI-1	RG/CY	100	No	37°C	●	●	●	pBR322 (dcm+) DNA
CviQI	G/TAC	75*	No	25°C	●	●	●	λ DNA
DdeI	C/TNAG	100	65°C	37°C	●	●	●	λ DNA
DpnI	GA/TC	100	80°C	37°C	●	●	□ ol	pBR322 DNA
DpnII	/GATC	25	65°C	37°C	■	●	●	λ DNA (dam-)
DraI	TTT/AAA	100	65°C	37°C	●	●	●	λ DNA
DraIII	CACNNN/GTG	25	65°C	37°C	●	●	◊ ol	λ DNA
DrdI	GACNNNN/NNGTC	100	65°C	37°C	●	●	□ scol	pUC19 DNA
EaeI	Y/GGCCR	100	65°C	37°C	●	□ ol	□ ol	λ DNA
EagI	C/GGCCG	10	65°C	37°C	●	●	■	pXba DNA
EarI	CTCTTC(1/4)	100	65°C	37°C	●	●	◊ ol	λ DNA
EciI	GGCGGA(11/9)	100	65°C	37°C	●	●	□ scol	λ DNA
EcoNI	CCTNN/NNNAGG	100	65°C	37°C	●	●	●	λ DNA
EcoO109I	RG/GNCCY	100	65°C	37°C	●	□ ol	●	λ DNA/HindIII
EcoP15I	CAGCAG(25/27)	100	65°C	37°C	●	●	●	pUC19 DNA
EcoRI	G/AATTC	50*	65°C	37°C	●	●	□ scol	λ DNA
EcoRV	GAT/ATC	10	80°C	37°C	●	●	◊ scol	λ DNA
FatI	/CATG	50	80°C	55°C	●	●	●	pUC19 DNA
FauI	CCCGC(4/6)	100	65°C	55°C	●	●	■	λ DNA
Fnu4HI	GC/NGC	100	No	37°C	●	●	□ ol	λ DNA

FokI	GGATG(9/13)	100	65°C	37°C	●	◊ ol	◊ ol	λ DNA
FseI	GGCCGG/CC	100	65°C	37°C	●	◊ scol	■	Adenovirus-2 DNA
FspI	TGC/GCA	100	No	37°C	●	●	■	λ DNA
HaeII	RGCGC/Y	100	80°C	37°C	●	●	■	λ DNA
HaeIII	GG/CC	100	80°C	37°C	●	●	●	λ DNA
HgaI	GACGC(5/10)	100	65°C	37°C	●	●	■	ΦX174 DNA
HhaI	GCG/C	100	65°C	37°C	●	●	■	λ DNA
HincII	GTY/RAC	100	65°C	37°C	●	●	□ scol	λ DNA
HindIII	A/AGCTT	50	80°C	37°C	●	●	●	λ DNA
HinfI	G/ANTC	100	80°C	37°C	●	●	□ scol	λ DNA
HinP1I	G/CGC	100	65°C	37°C	●	●	■	λ DNA
HpaI	GTT/AAC	100	No	37°C	●	●	□ scol	λ DNA
HpaII	C/CGG	100	80°C	37°C	●	●	■	λ DNA
HphI	GGTGA(8/7)	100	65°C	37°C	■	■	●	λ DNA
Hpy188I	TCN/GA	100	65°C	37°C	□ scol	●	●	pBR322 (dcm+)
Hpy99I	CGWCG/	100	65°C	37°C	●	●	■	λ DNA
HpyAV	CCTTC(6/5)	100	65°C	37°C	●	●	◊ ol	λ DNA
HpyCH4III	ACN/GT	100	65°C	37°C	●	●	●	λ DNA
HpyCH4I	A/CGT	100	65°C	37°C	●	●	■	pUC19 DNA
HpyCH4V	TG/CA	100	65°C	37°C	●	●	●	λ DNA
KasI	G/GCGCC	100	65°C	37°C	●	●	■	pBR322 DNA
KpnI	GGTAC/C	50*	No	37°C	●	●	●	pXba DNA
MboI	/GATC	100	65°C	37°C	■	●	◊ ol	λ DNA (dam-)
MboII	GAAGA(8/7)	100	65°C	37°C	□ ol	●	●	λ DNA (dam-)
MfeI	C/AATTG	100	No	37°C	●	●	●	λ DNA
MluI	A/CGCGT	25	80°C	37°C	●	●	■	λ DNA
MlyI	GAGTC(5/5)	100	65°C	37°C	●	●	●	λ DNA
MmeI	TCCRAC(20/18)	100	65°C	37°C	●	●	□ ol	ΦX174 DNA
MnlI	CCTC(7/6)	100	65°C	37°C	●	●	●	λ DNA
MscI	TGG/CCA	100	80°C	37°C	●	□ ol	●	λ DNA
MseI	T/TAA	100	65°C	37°C	●	●	●	λ DNA
MslI	CAYNN/NNRTG	100	80°C	37°C	●	●	●	λ DNA
MspA1I	CMG/CKG	100	65°C	37°C	●	●	□ ol	λ DNA
MspI	C/CGG	100	No	37°C	●	●	●	λ DNA
MwoI	GCNNNNN/NNGC	100	No	60°C	●	●	□ scol	λ DNA
NaeI	GCC/GGC	100	No	37°C	●	●	■	pXba DNA
NarI	GG/CGCC	100	65°C	37°C	●	●	■	pXba DNA
NciI	CC/SGG	100	No	37°C	●	●	◊ ol	λ DNA
NcoI	C/CATGG	100	80°C	37°C	●	●	●	λ DNA
NdeI	CA/TATG	100	65°C	37°C	●	●	●	λ DNA
NgoMIV	G/CCGGC	100	No	37°C	●	●	■	Adenovirus-2 DNA
NheI	G/CTAGC	100	65°C	37°C	●	●	□ scol	λ DNA/HindIII
NlaIII	CATG/	100	65°C	37°C	●	●	●	ΦX174 DNA
NlaIV	GGN/NCC	100	65°C	37°C	●	□ ol	□ ol	pBR322 DNA
NmeAIII	GCCGAG(21/19)	100	65°C	37°C	●	●	●	ΦX174 RF I DNA
NotI	GC/GGCCGC	25	65°C	37°C	●	●	■	pBC4 DNA
NruI	TCG/CGA	10	No	37°C	□ ol	●	■	λ DNA
NsiI	ATGCA/T	25	65°C	37°C	●	●	●	λ DNA
NspI	RCATG/Y	100	65°C	37°C	●	●	●	λ DNA
PacI	TTAAT/TAA	100	65°C	37°C	●	●	●	pNEB193 DNA
PaeR7I	C/TCGAG	100	No	37°C	●	●	■	λ DNA/HindIII
PciI	A/CATGT	50*	80°C	37°C	●	●	●	pXba DNA

PflFI	GACN/NNGTC	100	65°C	37°C	●	●	●	pBC4 DNA
PflMI	CCANNNN/NTGG	50	65°C	37°C	●	□ ol	●	λ DNA
PhoI	GG/CC	100	No	75°C	●	◊ scol	◊ scol	λ DNA
PleI	GAGTC(4/5)	100	65°C	37°C	●	●	□ scol	λ DNA
PmeI	GTTT/AAAC	100	65°C	37°C	●	●	□ scol	λ DNA
PmlI	CAC/GTG	100	65°C	37°C	●	●	■	λ DNA/HindIII
PpuMI	RG/GWCCY	100	No	37°C	●	□ ol	●	λ DNA/HindIII
PshAI	GACNN/NNGTC	100	65°C	37°C	●	●	□ scol	λ DNA
PsiI	TTA/TAA	100	65°C	37°C	●	●	●	λ DNA
PspGI	/CCWGG	100	No	75°C	●	■	●	T7 DNA
PspOMI	G/GGCCC	100	65°C	37°C	●	◊ scol	□ ol	pXba DNA
PspXI	VC/TCGAGB	100	No	37°C	●	●	♦	λ DNA/HindIII
PstI	CTGCA/G	50*	80°C	37°C	●	●	●	λ DNA
PvuI	CGAT/CG	10	No	37°C	●	●	■	pXba DNA
PvuII	CAG/CTG	100*	No	37°C	●	●	●	λ DNA
RsaI	GT/AC	100	No	37°C	●	●	□ scol	λ DNA
RsrII	CG/GWCCG	100	65°C	37°C	●	●	■	λ DNA
SacI	GAGCT/C	100	65°C	37°C	●	●	●	λ DNA/HindIII
SacII	CCGC/GG	100	65°C	37°C	●	●	■	pXba DNA
SalI	G/TCGAC	10	65°C	37°C	●	●	■	λ DNA/HindIII
SapI	GCTCTTC(1/4)	100	65°C	37°C	●	●	●	λ DNA
Sau3AI	/GATC	100	65°C	37°C	●	●	□ ol	λ DNA
Sau96I	G/GNCC	100	65°C	37°C	●	□ ol	□ ol	λ DNA
SbfI	CCTGCA/GG	100	80°C	37°C	●	●	●	λ DNA
ScaI	AGT/ACT	N/R	80°C	37°C	●	●	●	λ DNA
ScrFI	CC/NGG	100	65°C	37°C	●	□ ol	□ ol	λ DNA
SexAI	A/CCWGGT	100	65°C	37°C	●	■	●	pBC4 DNA (dcm-)
SfaNI	GCATC(5/9)	25	65°C	37°C	●	●	◊ scol	ΦX174 RF I DNA
SfcI	C/TRYAG	100	65°C	37°C	●	●	●	λ DNA
SfiI	GGCCNNNN/NGGCC	100	No	50°C	●	◊ ol	□ scol	Adenovirus-2 DNA
SfoI	GGC/GCC	100	No	37°C	●	□ scol	■	λ DNA/HindIII
SgrAI	CR/CCGGYG	100	65°C	37°C	●	●	■	λ DNA
SmaI	CCC/GGG	100	65°C	25°C	●	●	■	λ DNA
SmlI	C/TYRAG	100	No	55°C	●	●	●	λ DNA
SnaBI	TAC/GTA	100	80°C	37°C	●	●	■	T7 DNA
SpeI	A/CTAGT	100	80°C	37°C	●	●	●	Adenovirus-2 DNA
SphI	GCATG/C	100	65°C	37°C	●	●	●	λ DNA
SspI	AAT/ATT	50	65°C	37°C	●	●	●	λ DNA
StuI	AGG/CCT	100	No	37°C	●	□ ol	●	λ DNA
StyD4I	/CCNGG	100	65°C	37°C	●	□ ol	◊ ol	λ DNA
StyI	C/CWWGG	10	65°C	37°C	●	●	●	λ DNA
SwaI	ATTT/AAAT	10	65°C	25°C	●	●	●	M13mp19 RF I DNA
TaqαI	T/CGA	100	80°C	65°C	□ ol	●	●	λ DNA
TfiI	G/AWTC	100	No	65°C	●	●	□ scol	λ DNA
TliI	C/TCGAG	50	No	75°C	●	●	♦	λ DNA/HindIII
TseI	G/CWGC	100	No	65°C	●	●	□ scol	λ DNA
Tsp45I	/GTSAC	100	No	65°C	●	●	●	λ DNA
Tsp509I	/AATT	N/R	No	65°C	●	●	●	λ DNA
TspMI	C/CCGGG	100	No	75°C	●	●	■	pUCAdeno
TspRI	NNCASTGNN/	100	No	65°C	●	●	●	λ DNA
Tth111I	GACN/NNGTC	100	No	65°C	●	●	●	pBC4 DNA
XbaI	T/CTAGA	100	65°C	37°C	□ ol	●	●	λ DNA(dam-)/Hind III

XcmI	CCANNNNN/NNNNTGG	100	65°C	37°C	●	●	●	λ DNA
XhoI	C/TCGAG	100	65°C	37°C	●	●	♦	λ DNA/HindIII
XmaI	C/CCGGG	100	65°C	37°C	●	●	♦	Adenovirus-2 DNA
XmnI	GAANN/NNTTC	100	65°C	37°C	●	●	●	λ DNA
ZraI	GAC/GTC	100	80°C	37°C	●	●	■	λ DNA

注：*，在此 buffer 中可能产生星号活性。λ DNA/HindIII:λ DNA digested with HindIII.

- ● 不敏感
- ■ 完全阻断
- □ ol 重叠性阻断
- □ scol 某些重叠组合后被阻断
- ♦ 部分阻断
- ◊ ol 重叠性部分阻断
- ◊ scol 某些重叠组合后被部分阻断

附录2：

DNA 修饰酶在 CutEZ™ Buffer 中的活性表格如下：

Enzyme	% Activity in CutEZ™	Required Supplements
Alkaline Phosphatase(CIP)	100	-
Antarctic Phosphatase	100	Zn^{2+}
Bst DNA Polymerase	100	-
CpG Methyltransferase(M.SssI)	100	-
DNA Polymerase Ⅰ	100	-
DNA Polymerase Ⅰ, Large(klenow)Fragment	100	-
DNA Polymerase Klenow Exo^-	100	-
DNase Ⅰ (RNase-free)	100	Ca^{2+}
E.coli DNA Ligase	100	NAD
Endonuclease Ⅲ(Nth), recombinant	100	-
Endonuclease VIII	100	-
Exonuclease Ⅲ	100	-
GpC Methyltransferase(M.CviPI)	0-50	DTT
McrBC	100	-
Micrococcal Nuclease	100	-
Nuclease BAL-31	100	-
phi29 DNA Polymerase	100	-
$RecJ_f$	100	-
T3 DNA Ligase	100	ATP+PEG
T4 DNA Ligase	100	ATP
T4 DNA Polymerase	100	-
T4 Phage β-glucosyltransferase(T4-BGT)	100	-
T4 Polynucleotide Kinase	100	ATP
T4 PNK(3' phosphatase minus)	100	ATP
T7 DNA Ligase	100	ATP+PEG
T7 DNA Polymerase(unmodified)	100	-
T7 Exonuclease	100	-
USER Enzyme, recombinant	100	-

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