

## Diluent Buffer Set

### A, B, C



1-800-632-7799  
info@neb.com  
www.neb.com



B8000S 001121015101

# B8000S

5 ml (A) 2.5 ml (B) Lot: 0011210

2.5 ml (C) Store at -20°C Exp: 10/15

**Description:** Diluent Buffer Set A, B and C are recommended for making dilutions of New England Biolabs, Inc. restriction enzymes.

When necessary, we recommend diluting enzymes just prior to use and suggest that the final concentration of diluted enzymes be at least 1,000 units/ml. Enzymes should be stored at their selling concentrations.

Each vial contains 1.3 ml of diluent buffer. The diluents are labeled A, B, and C to help match enzymes with their appropriate diluent buffers. Provided are 4 vials of Diluent A and 2 vials each of Diluent B and C.

### Diluent A:

50 mM KCl, 10 mM Tris-HCl, (pH 7.4 at 25°C)  
0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA and  
50% glycerol.

### These enzymes are compatible with Buffer A:

\*These enzymes require supplementation with MgCl<sub>2</sub> to a final concentration of 10 mM.

AatII	BanII	BsaWI
AccI	BbvCI	BseRI
Acc65I	BccI	BsiEI
AccI	BceAI	BsiWI
AfeI	BcgI	BslI
AflII	BciVI	BsmI
AhdI	BclI	BsmFI
AleI	BfrBI	BsoBI
AlwI	BfuCI	Bsp1286I
AlwNI	BglII	BspCNI
ApaI	BlpI	BspDI
ApaLI	Bme1580I	BspEI
ApoI	BmtI	BspHI
AscI	Bpu10I	BsrBI
AvaI	BpuEI	BsrDI
AvaII	BsaAI	BsrGI
BaeI	BsaBI	BssHII
BamHI	BsaHI	BssKI
BanI	BsaJI	BstAPI

BstBI	HgaI	NcoI
BstEII	HhaI	NdeI
BstF5I	HinfI	NgoMIV
BstNI	HinPII	NruI
BstUI	HpaI	NsiI
BstYI	HpaII	NspI
Bsu36I	Hpy99I	PacI
BtgI	Hpy188I	PaeR7I
BtgZI	Hpy188III	PciI
BtsI	HpyCH4III	PfiFI
Clal	HpyCH4IV	PflMI
CspCI	KpnI	PhoI
DdeI	MboI	PleI
DraI	MboII	PmeI
DrdI	McrBC	PmlI
EaeI	MfeI	PshAI
EarI	MluI	PsiI
EciI	MlyI	PspGI
EcoNI	MseI	PspOMI
Eco0109I	MslI	PspXI
EcoP15I	MspI	PvuII
EcoRV	NaeI	RsaI
FatI	N.AlwI	SacI
FauI	NarI	SacII
Fnu4HI	N.BbvCIA	SalI
FokI	N.BbvCIB	Sau3AI
HaeII	N.BstNBI	Sau96I
HaeIII	NciI	SbfI

ScaI
ScrFI
SexAI
SgrAI
SmaI
SmlI
SnaBI
SpeI
StuI
StyI
Tsp45I
Tsp509I
XbaI
XhoI
XmaI
XmnI
ZraI

(See other side)

CERTIFICATE OF ANALYSIS

## Diluent Buffer Set

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### Diluent A:

50 mM KCl, 10 mM Tris-HCl, (pH 7.4 at 25°C)  
0.1 mM EDTA, 1 mM DTT, 200 µg/ml BSA and  
50% glycerol.

### These enzymes are compatible with Buffer A:

\*These enzymes require supplementation with MgCl<sub>2</sub> to a final concentration of 10 mM.

AatII	BanII	BsaWI
AccI	BbvCI	BseRI
Acc65I	BccI	BsiEI
AccI	BceAI	BsiWI
AfeI	BcgI	BslI
AflII	BciVI	BsmI
AhdI	BclI	BsmFI
AleI	BfrBI	BsoBI
AlwI	BfuCI	Bsp1286I
AlwNI	BglII	BspCNI
ApaI	BlpI	BspDI
ApaLI	Bme1580I	BspEI
ApoI	BmtI	BspHI
AscI	Bpu10I	BsrBI
AvaI	BpuEI	BsrDI
AvaII	BsaAI	BsrGI
BaeI	BsaBI	BssHII
BamHI	BsaHI	BssKI
BanI	BsaJI	BstAPI

BstBI	HgaI	NcoI
BstEII	HhaI	NdeI
BstF5I	HinfI	NgoMIV
BstNI	HinPII	NruI
BstUI	HpaI	NsiI
BstYI	HpaII	NspI
Bsu36I	Hpy99I	PacI
BtgI	Hpy188I	PaeR7I
BtgZI	Hpy188III	PciI
BtsI	HpyCH4III	PfiFI
Clal	HpyCH4IV	PflMI
CspCI	KpnI	PhoI
DdeI	MboI	PleI
DraI	MboII	PmeI
DrdI	McrBC	PmlI
EaeI	MfeI	PshAI
EarI	MluI	PsiI
EciI	MlyI	PspGI
EcoNI	MseI	PspOMI
Eco0109I	MslI	PspXI
EcoP15I	MspI	PvuII
EcoRV	NaeI	RsaI
FatI	N.AlwI	SacI
FauI	NarI	SacII
Fnu4HI	N.BbvCIA	SalI
FokI	N.BbvCIB	Sau3AI
HaeII	N.BstNBI	Sau96I
HaeIII	NciI	SbfI

ScaI
ScrFI
SexAI
SgrAI
SmaI
SmlI
SnaBI
SpeI
StuI
StyI
Tsp45I
Tsp509I
XbaI
XhoI
XmaI
XmnI
ZraI

(See other side)

CERTIFICATE OF ANALYSIS

**Diluent B:**

300 mM NaCl, 10 mM Tris-HCl (pH 7.4 @ 25°C),  
1 mM DTT, 0.1 mM EDTA, 500 µg/ml BSA and  
50% glycerol.

**These enzymes are compatible with Buffer B:**

AclI	BsmBI	MnlI
AcuI	BspMI	MscI
AflIII	BsrI	MspAII
AluI	BssSI	MwoI
ApeKI	BstXI	NlaIII
AseI	BstZ17I	NlaIV
AsiSI	Cac8I	PI-PspI
AvrII	CviAII	PI-SceI
BbsI	DpnI	PpuMI
BbvI	DpnII	PvuI
BfaI	DraIII	SfaNI
BfuAI	EagI	SfcI
BglI	FseI	SfoI
BmrI	HincII	SphI
BpmI	HindIII	StyD4I
BsaI	HphI	SwaI
BsaXI	HpyCH4V	TaqI
BseYI	I-CeuI	TliI
BsgI	I-SceI	TseI
BsiHKA1	KasI	TspRI
BsmAI	MmeI	Tth111I

Page 2 (B8000)

**Diluent B:**

300 mM NaCl, 10 mM Tris-HCl (pH 7.4 @ 25°C),  
1 mM DTT, 0.1 mM EDTA, 500 µg/ml BSA and  
50% glycerol.

**These enzymes are compatible with Buffer B:**

AclI	BsmBI	MnlI
AcuI	BspMI	MscI
AflIII	BsrI	MspAII
AluI	BssSI	MwoI
ApeKI	BstXI	NlaIII
AseI	BstZ17I	NlaIV
AsiSI	Cac8I	PI-PspI
AvrII	CviAII	PI-SceI
BbsI	DpnI	PpuMI
BbvI	DpnII	PvuI
BfaI	DraIII	SfaNI
BfuAI	EagI	SfcI
BglI	FseI	SfoI
BmrI	HincII	SphI
BpmI	HindIII	StyD4I
BsaI	HphI	SwaI
BsaXI	HpyCH4V	TaqI
BseYI	I-CeuI	TliI
BsgI	I-SceI	TseI
BsiHKA1	KasI	TspRI
BsmAI	MmeI	Tth111I

Page 2 (B8000)

**Diluent Buffer C:**

250 mM NaCl, 10 mM Tris-HCl (pH 7.4 @ 25°C),  
0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton  
X-100, 200 µg/ml BSA and 50% glycerol.

**These enzymes are compatible with Buffer C:**

AgeI	Hpy166II	SapI
BmgBI	NheI	SfiI
BsrFI	NotI	SspI
EcoRI	PstI	TfiI
FspI	RsrII	XcmI

**Note:** These enzyme diluent buffers are not for use  
with Vent<sub>r</sub><sup>®</sup> DNA Polymerases. For diluting Vent<sub>r</sub><sup>®</sup>  
DNA Polymerases, use (NEB #B8004S).

**Diluent Buffer C:**

250 mM NaCl, 10 mM Tris-HCl (pH 7.4 @ 25°C),  
0.1 mM EDTA, 1 mM dithiothreitol, 0.15% Triton  
X-100, 200 µg/ml BSA and 50% glycerol.

**These enzymes are compatible with Buffer C:**

AgeI	Hpy166II	SapI
BmgBI	NheI	SfiI
BsrFI	NotI	SspI
EcoRI	PstI	TfiI
FspI	RsrII	XcmI

**Note:** These enzyme diluent buffers are not for use  
with Vent<sub>r</sub><sup>®</sup> DNA Polymerases. For diluting Vent<sub>r</sub><sup>®</sup>  
DNA Polymerases, use (NEB #B8004S).