

RESTRICTION ENZYMES - DOUBLE DIGESTION



Enzyme	Dilution Buffer #	BSA [100 µg/ml]	Proto-type	Specificity	Reaction Buffers				Reaction temp. [°C]	Inactivation temp. [°C]	Recommended 10x Reaction Buffer
					Low	Medium	High	Acet			
Accl	1	+ BSA	Accl	GT ^A MKAC	100	75	<25	100	37	80	Acet
Acvl	1	+ BSA	PmaCl	CAC ^A G TG	75	100	75	100	37	80	Acet
Alul	2	+ BSA	Alul	AG ^A CT	75	75	50	100	37	65	Acet
Apal	1	+ BSA	Apal	GGGCC ^C C	25	50	0	100	25	65	Acet
Aval	1	+ BSA	Aval	C ^A YCGRG	25	100	50	25	37	80	Medium
Ball	1	+ BSA	Ball	TGG ^A CCA	<25	25	<25	100	37	65	Acet
BamHI	BamHI	+ BSA	BamHI	G ^A GATCC	<25*	100*	100	75*	37	NA	High
BanII	1	+ BSA	HgiIII	GRGCY ^C C	75	25	50	100	37	65	Acet
BglI	3	+ BSA	BglI	GCCN ₄ ^A NGGC	50	75	100	50	37	65	High
BglIII	2	+ BSA	BglIII	A ^A GATCT	<25	75	100	25	37	NA	High
BsiHKCI	1	+ BSA	Aval	C ^A YCGRG	<25*	100	100	50*	65	NA	Medium
BssHII	1	+ BSA	BsePI	G ^A CGCGC	100*	100	100	100*	50	80	High
BstXI	1	+ BSA	BstXI	CCAN ₅ ^A NTGG	<25	100	100	50	50	65	High
BsuTUI	1	+ BSA	Clal	AT ^A CGAT	0	75	50	100	37	65	Acet
CviJI	-	NO BSA	CviJI	RG ^A CY	NR	NR	NR	NR	37	65	CviJI
CviJI*	-	NO BSA	CviJI*	G ^A C	NR	NR	NR	NR	37	65	CviJI*
DpnI	-	NO BSA	DpnI	GA ^A TC	100	100	75	100	37	80	Acet
DraI	1	+ BSA	AhalII	TTT ^A AAA	100	100	75	100	37	65	Acet
EcoRI	3	BSA + det.	EcoRI	G ^A AATT C	25*	100	100	50	37	65	High
EcoRV	1	+ BSA	EcoRV	GAT ^A ATC	<25*	75*	100	75*	37	80	High
FokI	-	+ BSA	FokI	GGATG (9/13) ^A	NR	100	NR	NR	37	65	Medium
HaellI	1	+ BSA	HaellI	GG ^A CC	50	100	50	75	37	80	Medium
HincII	2	+ BSA	HindII	GTY ^A RAC	50	100	100	100	37	65	Medium
HindIII	2	+ BSA	HindIII	A ^A AGCTT	50*	100	<25	75*	37	65	Medium
HinfI	1	+ BSA	HinfI	G ^A ANTC	75	100	75	75	37	80	Medium
HpaI	1	+ BSA	HpaI	GTT ^A AC	25	50	25	100	37	NA	Acet
HpaII	1	+ BSA	HpaII	C ^A CGG	100	75	25	75	37	65	Low
KpnI	1	NO BSA	KpnI	GGTAC ^C C	100	50	<25	50	37	NA	Low
MboI	1	+ BSA	MboI	^GATC	75	100	100	100	37	65	Medium
MboII	1	+ BSA	MboII	GAAGA (8/7) ^A	100	50	25	100	37	65	Low
MluI	1	+ BSA	MluI	A ^A CGCGT	25	75	100	50	37	65	High
Mmel	-	NO BSA	Mmel	TCCRAC (20/18) ^A or (21/19) ^A	NR	NR	NR	NR	37	80	Mmel
MnlI	2	+ BSA	MnlI	CCTC (7/6) ^A	75	100	50	75	37	65	Medium
Mspl	1	+ BSA	HpaII	C ^A CGG	100	100	25	75	37	65	Medium
NarI	1	+ BSA	NarI	GG ^A CGCC	NR	NR	NR	NR	37	65	NarI
Ncol	1	+ BSA	Ncol	C ^A CATGG	75	75	75	100	37	65	Acet
NdeI	1	+ BSA	NdeI	CA ^A TATG	50	100	75	100	37	65	Acet
NheI	-	+ BSA	NheI	G ^A CTAGC	50	0	0	50	37	65	NheI
NotI	3	+ BSA	NotI	GC ^A GGCCGC	0	75	100	25	37	65	High
NruI	1	+ BSA	NruI	TCG ^A CGA	0	25	100	25	37	65	High
PinAI	PinAI	+ BSA	AgeI	A ^A CCGGT	50	25	<25	100	37	65	PinAI
PstI	1	+ BSA	PstI	CTGCA ^A G	75	75	100	50	37	80	High
PvuI	2	+ BSA	PvuI	CGAT ^A CG	<25	75	100	50	37	80	High
PvuII	1	+ BSA	PvuII	CAG ^A CTG	75*	100	75	75	37	NA	Medium
RsaI	1	+ BSA	RsaI	GT ^A AC	100	75	50	75	37	65	Low
RsrII	3	+ BSA	RsrII	CG ^A GWCCG	50	75	<25	100	37	65	Acet
SacI	1	NO BSA	SacI	GAGCT ^A C	100	50	<25	100	37	65	Low
SacII	1	NO BSA	SacII	CCGC ^A GG	50	75	75	100	37	65	Acet
Sall	1	+ BSA	Sall	G ^A TCGAC	<25	<25	100	<25	37	65	High
Sau3AI	1	+ BSA	MboI	^GATC	75	50	<25	75	37	65	Sau3AI
Scal	1	+ BSA	Scal	AGT ^A ACT	<25*	50*	100	<25*	37	80	High
SfiI	3	+ BSA	SfiI	GGCCN ₄ ^A NGGC	<25	100	25	100	50	NA	Medium
SinI	1	NO BSA	Avall	G ^A GWCC	75	50	25	100	37	NA	Acet
SmaI	1	+ BSA	SmaI	CCC ^A GGG	0	0	0	100	25	65	Acet
Spel	-	+ BSA	Spel	A ^A CTAGT	75	100	50	75	37	65	Medium
SphI	1	+ BSA	SphI	GCATG ^A C	75	100	50	100	37	65	Medium
SspI	1	BSA + det.	SspI	AAT ^A ATT	50*	100	50	50	37	65	Medium
StuI	1	+ BSA	StuI	AGG ^A CCT	75	100	50	75	37	65	Medium
TaqI	2	+ BSA	TaqI	T ^A CGA	25	50	100	50	65	NA	High
TaqII	Taq II Stor. Bf	NO BSA	TaqII	GACCGA (11/9) ^A	NR	NR	NR	NR	70	NA	TaqII
TspDTI	-	NO BSA	TspDTI	ATGAA (11/9) ^A	NR	NR	NR	NR	70	NA	TspDTI
TspGWI	-	NO BSA	TspGWI	ACGGA (11/9) ^A	NR	NR	NR	NR	70	NA	TspGWI
Tth11I	2	+ BSA	Tth11I	GACN ^A NNGTC	100	25	25	100	65	NA	Low
XbaI	1	+ BSA	XbaI	T ^A CTAGA	25*	100	100	75	37	65	Medium
Xhol	1	+ BSA	Xhol	C ^A TCGAG	75	100	100	75	37	65	Medium

NR - buffer is not recommended, to see recommended buffer check product specifications.
 NA - thermal inactivation is not available
 * - enzyme exhibits star activity under certain conditions

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roboklon

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