

Recommended Reaction Conditions for

Splendid - Restriction Endonucleases (02.03.2007)

Restriction enzyme	Tris-HCl (Tris-Acetate) {Bis Tris Propane-HCl}		NaCl (K-Acetate) {KCl}	MgCl ₂ (Mg-Acetate)	DTT	BSA	TX-100	Temp.	Buffer
	mM	pH (25°C)	mM	mM	mM	µg/ml	%	°C	
<i>Acc I</i>	(20)	7.9	(50)	(10)	1	100	-	37	B5
<i>Alu I</i>	10	7.9	-	10	1	100	-	37	B1
<i>Asu II</i>	10	7.9	50	10	1	100	0.1	37	B2*
<i>BamH I</i>	10	7.9	100	5	1	100	-	37	U
<i>Bcl I</i>	10	7.9	50	10	1	100	-	50	B2
<i>Bgl I</i>	100	7.9	50	5	-	100	0.025	37	U
<i>Bgl II</i>	50	7.9	100	10	1	100	-	37	B3
<i>BseA I</i>	10	8.0	100	5	1	100	0.02	55	U
<i>BseB I</i>	10	7.9	50	10	1	100	-	60	B2
<i>BseC I</i>	50	7.9	100	10	1	100	-	55	B3
<i>BshF I</i>	(20)	7.9	(50)	(10)	1	100	-	37	B5
<i>BsiS I</i>	(33)	7.9	(66)	(10)	0.5	100	0.1	55	U
<i>BssA I</i>	20	8.5	{100}	3	-	100	0.04	65	U
<i>BstE II</i>	10	7.4	{100}	5	1	100	0.1	60	U
<i>CspA I</i>	{10}	7.0	-	10	1	100	-	37	U
<i>Dpn I</i>	(33)	7.9	(66)	(10)	-	100	-	37	U
<i>EcoR I</i>	100	7.9	50	5	-	100	0.025	37	U
<i>EcoR V</i>	10	7.9	50	10	1	100	-	37	B2
<i>Hind III</i>	10	7.9	50	10	1	100	-	37	B2
<i>Hinf I</i>	50	7.9	100	10	1	100	-	37	B3
<i>Hpa I</i>	(20)	7.9	(50)	(10)	1	100	-	37	B5
<i>Kpn I</i>	10	7.0	-	10	1	100	0.01	37	U
<i>Mbo I</i>	10	7.3	50	10	1	100	-	37	U
<i>MspC I</i>	10	7.9	150	10	1	100	-	37	B4
<i>Nae I</i>	10	7.9	-	10	1	100	-	37	B1
<i>Nco I</i>	50	7.9	100	10	1	100	0.02	37	B3*
<i>Nhe I</i>	(20)	7.9	(50)	(10)	1	100	-	37	B5
<i>Not I</i>	50	7.9	100	5	1	100	-	37	U
<i>Nru I</i>	50	8.0	{100}	10	-	100	-	37	U
<i>PspP I</i>	10	7.9	50	10	1	100	-	25	B2
<i>Pst I</i>	50	7.4	100	10	1	100	-	37	U
<i>Pvu II</i>	10	7.9	50	10	1	100	-	37	B2
<i>Rsa I</i>	10	7.9	50	10	1	100	-	37	B2
<i>Sal I</i>	10	7.9	150	10	1	100	-	37	B4
<i>Sau3A I</i>	10	7.9	50	10	1	100	-	37	B2
<i>Sca I</i>	10	7.4	100	10	1	100	-	37	U
<i>Sfi I</i>	10	7.9	50	10	1	100	-	50	B2
<i>SgrB I</i>	10	7.9	-	10	1	100	0.1	37	B1*
<i>Sla I</i>	10	7.9	150	10	1	100	-	37	B4
<i>Sma I</i>	(20)	7.9	(50)	(10)	1	100	-	25	B5
<i>SnaB I</i>	{10}	7.0	-	10	1	100	-	37	U
<i>Sph I</i>	10	7.9	50	10	1	100	-	37	B2
<i>SseB I</i>	50	7.9	100	10	1	100	-	37	B3
<i>Ssp I</i>	50	7.9	100	10	1	100	-	37	B3
<i>Sst I</i>	10	7.9	-	10	1	100	-	37	B1
<i>Sty I</i>	50	7.9	100	10	1	100	-	37	B3
<i>Taq I</i>	10	8.4	100	10	1	100	-	65	U
<i>Xba I</i>	10	7.9	50	10	1	100	-	37	B2

* Requires Triton X-100 for optimal activity. TX-100 is included into the supplied reaction buffer.

Note:

BSA is not included into all supplied reaction buffers and should be added separately from the supplied stock solution (1 mg/ml).
Please have a look into the corresponding data sheet!

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