

Restriction Enzymes with *metabion* Buffers (02.03.2007)

This table lists relative activities of each restriction enzyme with each buffer assuming the activity of the enzyme under optimal conditions to be 100 %.

Restriction enzyme	Recommended buffer (= 100%)	Enzyme activity (%)				
		B1	B2	B3	B4	B5
<i>Acc</i> I	B5	50	50	10	<10	100
<i>Alu</i> I	B1	100	100	75	10-25	75
<i>Asu</i> II	B2*	75	100	50-75	25	50
<i>Bam</i> H I	U	75	75-100	100	50-75	75
<i>Bcl</i> I (50 °C)	B2	10-25	100	75	50-75	10-25
<i>Bgl</i> I	U	10-25	75-100	75-100	75-100	50
<i>Bgl</i> II	B3	10	75	100	75-100	10
<i>BseA</i> I (55 °C)	U	10	50	75-100	50-75	10
<i>BseB</i> I (60 °C)	B2	10-25	100	50	25-50	<10
<i>BseC</i> I (55 °C)	B3	10	50	100	75-100	50
<i>BshF</i> I	B5	50-75	75-100	75	50-75	100
<i>BsiS</i> I (55 °C)	U	25	50	25	10-25	100
<i>BssA</i> I (65 °C)	U	10	25	75	50	25
<i>BstE</i> II (60 °C)	U	<5	40	60	40	60
<i>CspA</i> I	U	50	<10	<10	<10	<10
<i>EcoR</i> I	U	25-50	50-75	75	50-75	75
<i>EcoR</i> V	B2	10-25	100	50	<10	75
<i>Hind</i> III	B2	25-50	100	10-25	10-25	50
<i>Hinf</i> I	B3	10-25	50	100	75-100	50
<i>Hpa</i> I	B5	25-50	10-25	10-25	10-25	100
<i>Kpn</i> I	U	75-100	25-50	<10	<10	50
<i>Mbo</i> I	U	50	100	25	<10	50
<i>MspC</i> I	B4	<10	15-50	75-100	100	50
<i>Nae</i> I	B1	100	25-50	25	<10	50
<i>Nco</i> I	B3*	50-75	75-100	100	100	75
<i>Nhe</i> I	B5	75	100	10	<10	100
<i>Not</i> I	U	<10	25-50	75	100	50
<i>Nru</i> I	U	<10	<10	75	50-75	10
<i>PspP</i> I (25 °C)	B2	50-75	100	50	25-50	10
<i>Pst</i> I	U	10-25	50-75	75-100	50-75	50
<i>Pvu</i> II	B2	25-50	100	100	25-50	50
<i>Rsa</i> I	B2	75-100	100	50	<10	<10
<i>Sal</i> I	B4	<10	25-50	50	100	<10
<i>Sau3A</i> I	B2	50	100	25	<10	50
<i>Sca</i> I	U	<10	50-75	100	75-100	25
<i>Sfi</i> I (50 °C)	B2	75-100	100	25-50	10-25	75-100
<i>SgrB</i> I	B1*	75-100	75	50-75	25-50	<10
<i>Sla</i> I	B4	25-50	75	75-100	100	10-25
<i>Sma</i> I (25 °C)	B5	<10	<10	<10	<10	100
<i>SnaB</i> I	U	50-75	50	25	<10	100
<i>Sph</i> I	B2	75-100	100	50	50	50
<i>SseB</i> I	B3	50-75	75-100	100	50-75	50
<i>Ssp</i> I	B3	10-25	50-75	100	75-100	50
<i>Sst</i> I	B1	100	25-50	25	<10	50
<i>Sty</i> I	B3	25-50	75-100	100	75-100	<10
<i>Taq</i> I (65 °C)	U	10-25	50-75	75-100	50-75	50
<i>Xba</i> I	B2	50-75	100	75	75	75

Reactions were carried out at 37 °C except for *Bcl* I, *BseA* I, *BseB* I, *BseC* I, *BsiS* I, *BssA* I, *PspP* I, *Sfi* I, *Sma* I and *Taq* I. The reaction temperature for these enzymes is indicated in parenthesis. All reactions were carried out in the presence of BSA, 100 µg/ml.

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!

“**” Requires Triton X-100 for optimal activity. TX-100 is included into the supplied reaction buffer. The respective reaction buffer is therefore marked with a star “**”.

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