## **O** Promega

## 1X Restriction Enzyme Buffer Composition.

Buffer	pH (at 37°C)	Tris-HCI (mM)	MgCl <sub>2</sub> (mM)	NaCl (mM)	KCI (mM)	DTT (mM)
A	7.5	6	6	6	_	1
В	7.5	6	6	50	_	1
С	7.9	10	10	50	_	1
D	7.9	6	6	150	—	1
E	7.5	6	6	100	_	1
F	8.5	10	10	100	_	1
G	8.2	50	5	_	_	
Н	7.5	90	10	50	_	
J	7.5	10	7	_	50	1
K	7.4	10	10	_	150	1
L	9.0	10	3	100		
L	9.0	10	3	100	_	-

MULTI-CORETM Buffer (1X) = 25mM Tris-acetate (pH 7.5 at 37°C), 100mM potassium acetate, 10mM magnesium acetate, 1mM DTT.

## Notes:

- 1. For each 10°C rise in temperature between 0°C and 25°C, the pH of Tris buffers decreases 0.31 pH units.
- For each 10°C rise in temperature between 25°C and 37°C, the pH of Tris buffers decreases 0.25 pH units.
- 3. All restriction enzymes are supplied with 10mg/ml Acetylated BSA. Although BSA is not absolutely required for activity, it has been shown to enhance activity of many restriction enzymes. We recommend adding BSA to all restriction digests at a final concentration of 0.1mg/ml.

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