Restriction Enzyme Buffers (Optimal Buffers Formulated for Restriction Enzyme Digestions) **10X Buffer Recipes Universal Buffer** Optimal Buffer #2 Optimal Buffer #4 Optimal Buffer #6 1 M KOAc 250 mM NaCl 1 M NaCl 500 mM KCI 250 mM Tris-Acetate (pH 7.6) 100 mM Tris-HCI (pH 7.5) 100 mM Tris-HCI (pH 7.7) 100 mM Tris-HCl (pH 7.8)

100 mM MgOAc 5 mM ß-mercaptoethanol	100 mM MgCl ₂ 100 mM ß-mercaptoethanol	100 mM MgCl ₂ 10 mM DTT	70 mM MgCl ₂ 10 mM DTT
100 μg/ml BSA	300 μg/ml BSA	100 μg/ml BSA	100 μg/ml BSA Optimal Buffer #7
Optimal Buffer #1 250 mM Tris-HCI (pH 7.7)	Optimal Buffer #3 500 mM NaCl	Optimal Buffer #5 1 M NaCl	1.5 M NaCl
100 mM MgCl ₂	250 mM Tris-HCI (pH 7.7)	100 mM Tris-HCl (pH 8.5)	100 mM Tris-HCl (pH 7.7)
10 mM DTT	100 mM MgCl ₂	100 mM MgCl ₂	100 mM MgCl ₂
300 μg/ml BSA	10 mM DTT 100 μg/ml BSA	10 mM DTT 100 μg/ml BSA	10 mM DTT 100 μg/ml BSA