Restriction Enzyme Buffers (Optimal Buffers Formulated for Restriction Enzyme Digestions)

10X Buffer Recipes

Universal Buffer

1 M KOAc
250 mM Tris-Acetate (pH 7.6)
100 mM MgOAc
5 mM ß-mercaptoethanol
100 µg/ml BSA

Optimal Buffer #1

250 mM Tris-HCl (pH 7.7)
100 mM $MgCl_2$
10 mM DTT
300 µg/ml BSA

Optimal Buffer #2

250 mM NaCl
100 mM Tris-HCl (pH 7.5)
100 mM $MgCl_2$
100 mM ß-mercaptoethanol
300 µg/ml BSA

Optimal Buffer #3

500 mM NaCl
250 mM Tris-HCl (pH 7.7)
100 mM $MgCl_2$
10 mM DTT
100 µg/ml BSA

Optimal Buffer #4

1 M NaCl
100 mM Tris-HCl (pH 7.7)
100 mM $MgCl_2$
10 mM DTT
100 µg/ml BSA

Optimal Buffer #5

1 M NaCl
100 mM Tris-HCl (pH 8.5)
100 mM $MgCl_2$
10 mM DTT
100 µg/ml BSA

Optimal Buffer #6

500 mM KCl
100 mM Tris-HCl (pH 7.8)
70 mM $MgCl_2$
10 mM DTT
100 µg/ml BSA

Optimal Buffer #7

1.5 M NaCl
100 mM Tris-HCl (pH 7.7)
100 mM $MgCl_2$
10 mM DTT
100 µg/ml BSA