Group Buffer List

Sep. 5, 2018

\* contamination of group buffers leads to the failure of everyone’s experiments. Use EXTRA caution.

\* No pipette tips, droppers or graduated pipet (不可用tips, 吸量管, 滴管). Pour the amount you need into your own 15/50 ml tubes.

\* The shelf life is at most 3 months.

**List**

1 M Tris-HCl (pH 7.6) 250 ml

1 M Tris-HCl (pH 8.0) 250 ml

1 M Tris-HCl (pH 8.5) 250 ml

1 M HEPES (7.6) 100 ml

5 M NaCl 100 ml

3 M NaOAc 100 ml

2 M KCl 100 ml

2 M KOH 250 ml

1 M K-Glu 100 ml

1 M MgCl2 100 ml

1 M Mg(OAc)2 100 ml

1 M CaCl2 100 ml

0.5 M EDTA 50 ml

5X TBE 1 liter

Recipe M.W.(g/mol) Add(g)

1 M HEPES (7.6) 100 ml 238.31 23.83

(need pH adjust)

5 M NaCl 100 ml 58.4 29.2

3 M NaOAc 100 ml 82.03 24.61

2 M KCl 100 ml 74.55 14.91

2 M KOH 250 ml 56.11 28.06

1 M K-Glu 100 ml 203.2 20.32

1 M MgCl2 100 ml 203.30(6H­2O)/95.21 20.33/9.52

1 M Mg(OAc)2 100 ml 214.46 21.45

1 M CaCl2 100 ml 147.01 14.7

0.5 M EDTA 50 ml 372.24 9.306

5X TBE 1 liter

pH = 7.6 Tris(1M) 0.5 liter tris-HCl(60.6g); tris(13.9g)

pH = 8.0 Tris(1M) 0.5 liter tris-HCl(44.4g); tris(26.5g)