Stocks in Use

TE buffer

10 mM Tris-Cl, pH 8

1 mM EDTA

Make from 1M stock of Tris-Cl (pH 8.0) and 500 mM stock of EDTA (pH 8.0).

10ml 1M Tris-Cl pH 8.0 per L

2ml 500mM EDTA pH 8.0

For 50ml

500μl 1M Tris-Cl pH 8.0 per L

100μl 500mM EDTA pH 8.0

Add DD water to 50ml

For 10ml

100μl 1M Tris-Cl pH 8 per L

20μl 500mM EDTA pH 8.0

Add DD water to 10ml

1M Tris (crystallized free base)

Tris(hydroxymethyl) aminomethane

FW 121.4 g/mol

60.57 g in 0.5L MQ water

pH to 8 using HCl

0.5M EDTA

Diaminoethane tetraacetic acid

FW 372.2 g/mol

18.6 g in 100ml mq water

pH to 8.0 using NaOH

• EDTA will not be soluble until pH reaches 8.0

**372g** in **2L MQ. Water**

Elution Buffer (40mL)

|  |  |  |
| --- | --- | --- |
| Final conc | Stock Conc | Volume to Add |
| 10mM Tris PH8 | 1M | 400μL |
| 1mM EDTA | 0.5M | 80μL |
| 0.5% SDS | 20% | 1mL |
| H2O (filtered) |  | 38.52mL |

Formamide Loading Buffer. (From Frank)

If less than 2ml remains.

10mI formamide

10mg xylene cyanol

10mg bromophenol blue

200ul 0.5M EDTA

200ul 1M Tris pH 8.0

10X TBE

Prepare a 10X stock solution in 1 L of H2O:

108 g of Tris base

55 g of boric acid

Caution 40 mL of 0.5 M EDTA (pH 8.0)

The 1X working solution is 90 mM Tris-borate/2 mM EDTA.

3 M Sodium Acetate (NaOAc, pH 5.2)

Makes 100 ml. Store at room temperature (indefinitely).

Dissolve 40.8 g sodium acetate (m.w. 136.08) in 70 ml of deionized or distilled water.

Adjust the pH to 5.2 by adding glacial acetic acid; monitor with a pH meter.

Add water to bring the total volume of solution to 100 ml.