Transformation Buffer for Competent Cells

Author Unknown

For 200 mL of buffer:

0.78 g KOAc
1.76 g CaCl$_2$
30.0 g sucrose

Mix the above ingredients in about 100ml of milliQ water

pH to 5.8 using DILUTE acetic acid

Once pH reaches 5.8 add the following:

1.78 g MnCl$_2$·4H$_2$O
2.60 g RbCl$_2$

Raise volume to 200 mL with milliQ water.

Filter through a 0.2µm Nalgene filter. Can be stored at -20°C – but do not re-freeze after thawing.

Final concentrations:

45mM MnCl$_2$
60mM CaCl$_2$
40mM KOAc
100mM RbCl
15% sucrose