

## Appendix II: List of buffers, solutions, media and antibiotics

<b>Buffers and stock solutions</b>	<b>Composition</b>
<b>Edinburgh Minimal medium (EMM)</b>	For 1 liter: 3.0 g potassium hydrogen phthalate, 2.2 g Na <sub>2</sub> HPO <sub>4</sub> , 5.0 g NH <sub>4</sub> Cl, 20g D-glucose, 20 ml salts stock (X50), 1 ml vitamin stock (X1000), 0.1 ml mineral stock (X10000)
<b>0.5 M EDTA</b>	For 1 liter: 186.1 g disodium ethylenediaminetetracetate · 2H <sub>2</sub> O
<b>Formal saline</b>	0.9% saline, 3.7% formaldehyde
<b>Freezing mix</b>	YE containing 250 mg of Glutamic Acid, 50% glycerol
<b>Hybridization buffer</b>	5 x SSC, 6 x Denhardt's 60 mM TrisHCl pH 7.6, 0.12% sarkosyl, 48% formamide; filter sterilized
<b>10X LiAc</b>	1M Lithium Acetate, pH 7.5
<b>Luria Bertani medium (LB)</b>	For 1 liter: 10g NaCl, 10 g tryptone, 5 g yeast extract, pH 7.0
<b>Mineral stock (X10000)</b>	For 1 liter: 5.0 g H <sub>3</sub> BO <sub>3</sub> , 4.0 g MnSO <sub>4</sub> , 4.0 g ZnSO <sub>4</sub> · 7H <sub>2</sub> O, 2.0 g FeCl <sub>3</sub> · 6H <sub>2</sub> O, 0.4 g H <sub>2</sub> MOO <sub>4</sub> · H <sub>2</sub> O, 1.0 g KI, 0.4 g CuSO <sub>4</sub> · 5H <sub>2</sub> O, 10 g citric acid
<b>2X Printing buffer</b>	300 mM sodium phosphate, pH 8.5
<b>PEG/LiAc/TE</b>	For 20 ml: 2 ml 10X LiAc, 2 ml 10X TE, filter-sterilized
<b>Phosphate Buffer Saline (PBS)</b>	For 1 liter: 8.0 g NaCl, 0.2 g KH <sub>2</sub> PO <sub>4</sub> , 1.44 g Na <sub>2</sub> HPO <sub>4</sub> , 0.2 g KCl, pH 7.4
<b>Salt stock (X50)</b>	For 1 liter: 53.5 g MgCl <sub>2</sub> · 6H <sub>2</sub> O, 0.74 g CaCl <sub>2</sub> · 2H <sub>2</sub> O, 50 g KCl, 20 g Na <sub>2</sub> SO <sub>4</sub>
<b>SOC medium</b>	For 100 ml: 2.0g Bacto-tryptone, 0.5g Bacto-yeast extract, 1ml 1M NaCl, 0.25ml 1M KCl, 1ml Mg <sup>2+</sup> stock (1M MgCl <sub>2</sub> · 6H <sub>2</sub> O, 1M MgSO <sub>4</sub> · 7H <sub>2</sub> O), filter-sterilized, 1ml 2M glucose, filter-sterilized
<b>20X SSC</b>	3 M NaCl, 300 mM Na-citrate, pH 7.0

<b>1X TAE</b>	40 mM Tris-acetate, 1 mM EDTA, pH 7.2
<b>1X TE</b>	10 mM Tris/HCl, pH 8.0, 1 mM EDTA
<b>1X TES</b>	10 mM Tris pH 7.5, 10 mM EDTA pH 8.0, 0.5% SDS
<b>Vitamin stock (1000X)</b>	For 1 liter: 1.0 g Na pantothenate, 10 g nicotinic acid, 10 g inositol, 10 mg biotin
<b>Washing solution 1</b>	2X SSC
<b>Washing solution 2</b>	0.1X SSC, 0.1% SDS
<b>Washing solution 3</b>	0.1X SSC
<b>Yeast Extract (YE)</b>	For 1 liter: 5 g Difco Yeast Extract, 30 g glucose, pH 5.6. Supplements: 250 mg histidine, leucine, adenine, uracil and lysine
<b>Yeast Extract (YE) agar</b>	YE plus 20 l/liter Difco agar