# Appendix 1: Reagents and buffers used.

# Amino linking Buffer (10x)

500mM KCl, 25mM MgCl2,

50mM Tris/HCl pH 8.5

Made with autoclaved distilled water.

# **HindIII Digestion mix** (for a 96 well plate)

Hind III (Boehringer 40U/ml), 55µl Buffer B (Boehringer) 99µl Sterilised water 286µl

#### **Hybridisation Buffer**

50% deionised formamide

2xSSC

10% dextran sulphate

0.1% SDS

10mM Tris pH 7.4 0.1% Tween 20

### LB Agar

Tryptone 10g
Yeast Extract 5g
NaCl 10g
Agar 15g

Make up to 1 litre with autoclaved distilled water.

### **LB Broth**

Tryptone 10g Yeast Extract 5g NaCl 10g

pH to 7.5 (using 1M NaOH)

Make up to 1 litre with autoclaved distilled water.

Autoclave at 121°C for 15 minutes.

# Orange G (10mls)

Orange G 0.1g
Ficoll 1.2g
Make up to 10ml with sterilised distilled water

## **Polyamine isolation buffer (PAB)**

80mM KCl

20mM NaCl

2mM EDTA

0.5mM EGTA

15mM Tris

3mM dithiothreitol

0.25% (vol:vol) Triton X-100 pH adjusted to 7.2

#### **Sheath Buffer**

10mM Tris-HCl pH 8.0

1mM EDTA

100mM NaCl

0.5mM Sodium Azide

## SSC(1x)

0.15M NaCl

0.015M Sodium Ctrate

pH 7.0

### TAPS 2 Buffer (10x)

250mM TAPS pH 9.3,

166mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>,

25m MgCl<sub>2</sub>,

0.165% w/v Bovine serum albumin (Sigma),

0.7% v/v 2-mercaptoethanol

Made with autoclaved distilled water.

## TBE Buffer (10x)

Tris Base 121g
Boric Acid 61.83g
EDTA 18.612g

pH 8.0

Make up to 1 litre with autoclaved distilled water.

# TY Media (2x)

Bacto-tryptone 16g
Bacto-yeast Extract 10g
NaCl 5g

Make up to 1 litre with autoclaved distilled water.

Autoclave at 121°C for 15 minutes.

### Vista Green Stain (for 500ml – 1 gel)

1Ml Tris HCL5ml0.5M EDTA pH 7.40.5mlVistra Green0.05mlMake up to 500ml with sterilised distilled water.