Supplementary Method 9 Preparation of Binding Buffer (BB)

Reagents

- Guanidine Hydrochloride (GuHCI)
- MilliQ water
- Isopropanol
- 3M sodium acetate, pH 5.2
- Tween 20

Equipment

- Weighing scales
- 2L glass beaker
- 3L glass beaker
- 5 L glass beakers
- 2 L graduated cylinder
- Heater/Stirrer

Procedure

NOTE: Masks should be worn when making this buffer if there is a possibility of asymptomatic COVID-19 infection causing contamination. This buffer is made in a fumehood

How to make 2 L + 80 mL Binding buffer BB

1. Weigh out 955.2 g GuHCl and add to a 2 L beaker.

Initials:

2. Add **500 mL** freshly drawn milliQ. Stir and heat to 60°C to dissolve. Make up to 1200 mL in a 2 L graduated cylinder.

Initials:

3. Add Isopropanol up to 2 L (800 mL).

Initials:

4. Add 80 mL 3M sodium acetate, pH 5.2.

Initials:

5. Add 1mL Tween-20. Stir well to mix.

Initials:

- 6. Vacuum filter into sterile bottles.
- 7. Label with batch and date.

Initials:

Store Binding Buffer BB buffer in a flammables cupboard at room temperature (+15 $^{\circ}$ C – +25 $^{\circ}$ C).

Supplementary Method 9 Preparation of Binding Buffer (BB)

How to make 4L + 160 mL Binding buffer BB

 Add 1000 mL freshly drawn milliQ water which has been heated to 60°C to a 5L beaker.

Initials:

Weigh out 1.911 Kg GuHCl in aliquots using a 3 L beaker and carefully add to 5 L beaker Stir and heat to 60 deg C to dissolve A sterile pipette may be required to stir. Once dissolved, make up to 2400 mL with freshly drawn milliQ water using a 2L graduated cylinder and transferring buffer to second 5L beaker.

Initials:

3. Add Isopropanol up to 4 L (1600 mL) using a 2L graduated cylinder.

Initials:

4. Add 160 mL 3M sodium acetate, pH 5.2.

Initials:

5. Add 2 mL Tween-20. Stir well to mix.

Initials:

- 6. Vacuum filter into sterile bottles.
- 7. Label with batch and date.

Initials:

Store Binding Buffer BB buffer in a flammables cupboard at room temperature (+15°C – +25°C).

How to make 5L + 200 mL Binding buffer BB

 Add 1250 mL freshly drawn milliQ water which has been heated to 60°C to a 5L beaker.

Initials:

2. Weigh out **2.388 Kg GuHCI** in aliquots using a 3 L beaker and carefully add to 5 L beaker Stir and heat to 60 deg C to dissolve A sterile pipette may be required to stir. Once dissolved, make up to 3000 mL with freshly drawn milliQ water using a 2L graduated cylinder and transferring buffer to second 5L beaker.

Initials:

3. Add Isopropanol up to 5 L (2000 mL) using a 2L graduated cylinder.

Initials:

4. Add 200 mL 3M sodium acetate, pH 5.2.

Initials

5. Add 2.5 mL Tween-20. Stir well to mix.

Initials:

- 6. Vacuum filter into sterile bottles.
- 7. Label with batch and date.

Initials:

Store Binding Buffer BB buffer in a flammables cupboard at room temperature (+15°C – +25°C).