

E3 medium (for zebrafish embryo)

2019-2-18

- Working concentration
 - 5 mM NaCl
 - 0.17 mM KCl
 - 0.33 mM CaCl₂
 - 0.33 mM MgSO₄
 - 10⁻⁵ % Methylene Blue
- 50x Stock solution (without Methylene Blue)
 - For 1 litres
 - 14.6 g NaCl
 - 0.63 g KCl
 - 2.43 g CaCl₂.2H₂O
 - 4.07 g MgSO₄.7H₂O
 - Adjust pH to 7.2 with 0.1M NaOH solution
 - Autoclave
 - Store in a fridge
- 5x Stock solution
 - Dilute 100 mL of 50x stock with DDW to make up 1 L of 5x E3
 - Add 1 mL of 0.05% Methylene blue as a fungicide.
 - Store in a fridge
- 1x E3 medium
 - Dilute 200 mL of 5x stock with DDW to make up 1 L of 1x E3

Deyolking buffer (0.5x Ginsburg fish ringers w/o Ca²⁺)

2019-2-19

- Working concentration
 - 55 mM NaCl
 - 1.8 mM KCl
 - 1.25 mM NaHCO₃
- 20x Stock solution
 - For 100 mL
 - 6.44 g NaCl
 - 0.268 g KCl
 - 0.21 g NaHCO₃
 - Store in a fridge
- 1x Deyolking buffer
 - Dilute 2.5 mL of 20x stock with DDW to make up 50 mL of 1x buffer

Embryo wash buffer

2019-2-19

- Working concentration
 - 10mM Tris-HCl, pH8.0
 - 110 mM NaCl
 - 3.5 mM KCl
 - 2.7 mM CaCl₂
- 2x Stock solution
 - For 500 mL
 - 6.44 g NaCl
 - 0.26 g KCl
 - 0.4 g CaCl₂·H₂O
 - Store in a fridge
- 1x Embryo wash buffer
 - Dilute 25 mL of 2x stock with DDW to make up 50 mL of 1x buffer