

Frog Ringers

NaCl (54.88 MW)..... 6.15..... gm/L dH₂O

KCl (74.55 MW).....0.14..... gm/L dH₂O.

NaHCO₃ (84.01 MW)..... 0.20..... gm/L dH₂O..

NaH₂PO₄ (137.99 MW)..... 0.14..... gm/L dH₂O.

pH to 7.4 then add

CaCl₂ (111.0 MW).....0.12..... gm/L dH₂O.

Volumes:Total:....20 L..... Put in the Carboy on the shelf in B230

16 mM K Frog Ringers

NaCl (54.88 MW)..... 6.15..... gm/L dH₂O.

KCl (74.55 MW).....0.56..... gm/L dH₂O.

NaHCO₃ (84.01 MW)..... 0.20..... gm/L dH₂O.

NaH₂PO₄ (137.99 MW).....0.14..... gm/L dH₂O.

pH to 7.4 then add

Volumes: Total:.....2 L.....

CaCl₂ (111.0 MW).....0.12..... gm/L dH₂O.

8 mM K Frog Ringers

NaCl (54.88 MW)..... 6.15..... gm/L dH₂O.

KCl (74.55 MW).....0.28..... gm/L dH₂O.

NaHCO₃ (84.01 MW)..... 0.20..... gm/L dH₂O.

NaH₂PO₄ (137.99 MW).....0.14..... gm/L dH₂O.

pH to 7.4 then add

CaCl₂ (111.0 MW)..... 0.12..... gm/L dH₂O.

Volumes: Total:.....2 L.....

0 mM K Frog Ringers

NaCl (54.88 MW)..... 6.15..... gm/L dH₂O.

ChCl (139.6 MW)..... 0.26..... gm/L dH₂O.

KCl (74.55 MW).....0.00..... gm/L dH₂O.

NaHCO₃ (84.01 MW)..... 0.20..... gm/L dH₂O.

NaH₂PO₄ (137.99 MW).....0.14..... gm/L dH₂O.

pH to 7.4 then add

CaCl₂ (111.0 MW)..... 0.12..... gm/L dH₂O.

Volumes: Total:.....2 L.....

50 mM Na Frog Ringers

NaCl (54.88 MW)..... 2.05..... gm/L dH₂O.

ChCl (139.6 MW)..... 10.43..... gm/L dH₂O.

KCl (74.55 MW).....0.14..... gm/L dH₂O.

NaHCO₃ (84.01 MW)..... 0.20..... gm/L dH₂O replace with KHCO₃.

Solutions for Neuro-Toxin Physiology

MCB 404

NaH₂PO₄ (137.99 MW).....0.14..... gm/L _dH₂O replace with KH₂PO₄.

pH to 7.4 then add

CaCl₂ (111.0 MW)..... 0.12..... gm/L _dH₂O.

Volumes: Total:.....2 L.....

5 mM Na Frog Ringers

NaCl (54.88 MW).....	0.21.....	gm/L	dH ₂ O.
ChCl (139.6 MW).....	15.11.....	gm/L	dH ₂ O.
KCl (74.55 MW).....	0.14.....	gm/L	dH ₂ O.
NaHCO ₃ (84.01 MW).....	0.20.....	gm/L	dH ₂ O replace with KHCO ₃ .
NaH ₂ PO ₄ (137.99 MW).....	0.14.....	gm/L	dH ₂ O replace with KH ₂ PO ₄ .
pH to 7.4 then add			
CaCl ₂ (111.0 MW).....	0.12.....	gm/L	dH ₂ O.
Volumes: Total:	2 L.....		

0 mM Na Frog Ringers

ChCl (139.6 MW).....	15.64.....	gm/L	dH ₂ O.
KCl (74.55 MW).....	0.14.....	gm/L	dH ₂ O.
NaHCO ₃ (84.01 MW).....	0.20.....	gm/L	dH ₂ O replace with KHCO ₃ .
NaH ₂ PO ₄ (137.99 MW).....	0.14.....	gm/L	dH ₂ O replace with KH ₂ PO ₄ ..
pH to 7.4 then add			
CaCl ₂ (111.0 MW).....	0.12.....	gm/L	dH ₂ O.
Volumes: Total:	2 L.....		

1% TTX in Frog Ringers MW: _____ Molarity: _____

TTX (319.3 MW).....	1.00.....	gm/L	dH ₂ O
NaCl (54.88 MW).....	6.15.....	gm/L	dH ₂ O.
KCl (74.55 MW).....	0.14.....	gm/L	dH ₂ O.
NaHCO ₃ (84.01 MW).....	0.20.....	gm/L	dH ₂ O.
NaH ₂ PO ₄ (137.99 MW).....	0.14.....	gm/L	dH ₂ O.
pH to 7.4 then add			
CaCl ₂ (111.0 MW).....	0.12.....	gm/L	dH ₂ O.
Volumes: Total:	2 L.....		

1% Oubain in Frog Ringers MW: _____ Molarity: _____

Oubain (728.8 MW).....	1.00.....	gm/L	dH ₂ O
NaCl (54.88 MW).....	6.15.....	gm/L	dH ₂ O.
KCl (74.55 MW).....	0.14.....	gm/L	dH ₂ O.
NaHCO ₃ (84.01 MW).....	0.20.....	gm/L	dH ₂ O.
NaH ₂ PO ₄ (137.99 MW).....	0.14.....	gm/L	dH ₂ O.
pH to 7.4 then add			
CaCl ₂ (111.0 MW).....	0.12.....	gm/L	dH ₂ O.
Volumes: Total:	2 L.....		