

Frog Skin Solutions

Chloride-Bicarbonate Frog Ringer's

NaCl	11.6 gm/2L	23.2 gm/4L	46.4 gm/8L	116 gm/20L
KHCO ₃	0.5 gm/2L	1.0 gm/4L	2.0 gm/8L	5 gm/20L

Set pH to 7.2 with HCl or NaOH and then add

CaCl ₂	0.59 gm/ 2L	1.18 gm/4L	2.36 gm/8L	5.9 gm/20L
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Volumes:

Total: 29 Liters In the carboy in Lab.

1 μ M Forskolin in Ringer's (410.5 MW). Sigma : F-6886 (25 mg)

Initially dissolve in 200 proof EtOH. (i.e 2ml EtOH in a 25mg bottle).

Forskolin 0.4104 mg/L Ringer's. 0.2052 mg/500ml Ringer's.

Volumes: **164 μ l of 12.5 Forskolin mg/ml EtOH into 500 ml**

Ringers

Total: Make up fresh daily, 500 ml/section.
refrigerated in light sensitive bottle.

ADH/Theophylline in Ringer's . Vaso: Sigma V8129 (250 IUs) Theophylline

Sigma : T-1633 (100 grams)

Vasopressin 30 mIU/ml **15 IU / 500 ml Ringer**

Theophylline (MW :180.2) 0.09 gm / 500mL Ringer's.

Volumes:

Total: refrigerated in light sensitive bottle.

Make up fresh daily, 500 ml/section.

100 μ M Amiloride in Ringer's (266.1 MW). Sigma : A-7410 (5 gm)

Amiloride **0.135gm/500mL Ringer's.**

Volumes:

Total: refrigerated in light sensitive bottle.

Make up fresh daily, 500 ml/section.

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Salt Bridges:

5 M NaCl (58.44 MW)

NaCl

292.2 gm/L in $_d\text{H}_2\text{O}$.

Volumes:

Total: 1 Liters

4% Agar in 5 M NaCl.

Agar Noble

2.0 gm/50 ml 5 M NaCl.

Volumes:

Total: 50 ml/30 salt bridges.

Add 2 grams Agar Noble to 50 ml of 5 M NaCl and heat, while stirring, until boiling. Turn off heat and begin filling pipette tips. Drop filled tips into a 150 ml beaker a third full of 5 M NaCl, tip first. When beaker is full cover with Parafilm and set aside and start on another. Do not allow to boil over and only fill tips when the solution is not at a rouiling boil.

Things to remember:

- 1) Save the Silverwires.
- 2) Clean the table tops including the side tables.
- 3) Put the large Dark brown bottles back into the fridge.
- 4) Lable three squirt bottles with "Amiloride", "ADH/Theophylline", "Forskolin", and put their solutions in these.
- 5) Wash everything with warm soapy water!
- 6) Rinse everything with $_d\text{H}_2\text{O}$!!!!!!!