Perfusion protocol by Martin Wild

The bird will be perfused first with 0.9% saline and then with a fixative containing 0.5% paraformaldehyde, 1.5% glutaraldehyde, and 1.5% sucrose in 0.1 M phosphate buffer. Mix up to one liter of each.

Saline

Add 9 grams of NaCl to about 500 ml of ddH20

Fill to 1 liter

Filter to remove all large crystals (filter paper must be folded into 1/4 pie, placed in funnel)

Fixative

Boil about 500 ml of ddH20 in the microwave, which takes about 4 minutes.

Add ten drops of saturated NaOH

Place in the hood and add 5 grams of paraformadehyde while stirring for about ten minutes until dissolved

Cool in ice slurry until it drops below 40 degrees celsius

Add 250 ml of 0.4 M phosphate buffer

Add 60 ml of 25% glutaraldehyde

Bring up to 1 liter with ddH20

ph to something between 7.4 and 7.5

filter to remove all crystal conglomerates

During the perfusion, the saline is always on the right and the fix is always on the left.