



## RUTHENIUM TETROXIDE (RuO<sub>4</sub>) STAINING KIT MIXING INSTRUCTIONS

RuO<sub>2</sub> Hydrate

Sodium periodate NaIO<sub>4</sub>

Use vapors only for staining, do not immerse the sample.

Dissolve 4 grams NaIO<sub>4</sub> in 100 ml of deionized H<sub>2</sub>O.

Cool to 1° - 5° C.

Add 0.6 grams RuO<sub>2</sub>

Keep NaIO<sub>4</sub> solution in an ice bath in a vial with a glass stopper. **DO NOT SEAL!**

Place solution, in ice bath, in hood for 3-4 hours for reaction to take place.

Reacted solution may then be stored at room temperature, or in a refrigerator or freezer.

As dioxide builds up again, cool solution to 1° to 5° C, and add more NaIO<sub>4</sub>.

NOTE: May dip grid into 1% aqueous solution of NaIO<sub>4</sub> for 2-3 seconds to remove over staining.

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