



### **For In Vitro Diagnostic Use**

#### **Directions:**

1. Specimen should be thoroughly fixed before decalcification. Most standard fixatives can be used prior to **RDO GOLD** use. To insure adequate fixation and decalcification, specimens should be trimmed to less than 1 cm thickness. *Formalin fixation and RDO GOLD decalcification should not be combined.* Prior fixation with formalin is permissible. Brief washing in water before **RDO GOLD** decalcification is required.
2. Do not use metallic equipment/cassettes for decalcification. **RDO GOLD** can pit or oxidize some metals after long periods of exposure. Decalcified tissues may be placed in metallic equipment after rinsing.
3. Place small biopsy specimens in **RDO GOLD** for 4-8 hours, depending on the size and estimated quantity of calcium present. Place larger specimen in **RDO GOLD** overnight or 4-12 hours. Use an adequate volume of **RDO GOLD** to tissue in a 20:1 ratio or better. Frequent mild agitation of the larger specimens in solution will enhance even penetration and decrease exposure time in the solution. This will also help to lessen over decalcification of the outer tissue or bone before sufficient core decalcifying is achieved. The key determinants for time required for decalcification are size and density of the specimen. If **RDO GOLD** action is too rapid, dilute with distilled or de-ionized water. DO NOT OVER DECALCIFY. To avoid over-decalcification, the specimen should be checked every 2 hours for mildly calcified specimens and every 8-12 hours for compact bone.
4. Determine the end point of decalcification using standard methods (e.g. X-ray, flexibility, chemical analysis).
5. Proceed with routine processing and embedding. Washing tissue prior to processing is optional.

### **Storage & Disposal**

#### **Directions:**

1. Store at room temperature. Keep container closed at all times. Store only in a glass or plastic container. Do not use metal containers, as **RDO GOLD** will can pit or oxidize some metals after long periods of exposure.
2. After long periods of storage, some change of color or an increase of suspended precipitate may occur. These are normal occurrences and do not affect the decalcifying potential of **RDO GOLD**. The precipitate may be allowed to settle or removed by filtration; however, neither action is necessary.
3. **RDO GOLD** is biodegradable as received and may be disposed of down regular city sewer systems with water flush. Dispose of according to federal, state and local regulations.

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## **Precautions**

Material as a whole should be considered non-hazardous under normal use conditions. However, as with most reagents, our recommendations are to avoid extensive or repeated contact with skin. Avoid contact with eyes. Wash all exposed areas with soap and water. If swallowed, contact a physician. For ordering or additional information: 800-451-6291

**Please do not hesitate to contact us for additional information.**



For a fast-acting decalcifier that is also safe to handle, visit our website for information on **RDO Rapid Decalcifier**.

### **APEX ENGINEERING PRODUCTS CORPORATION**

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