SIRCHIE
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TECHNICAL INFORMATION
Oil Red O Latent Print Developer
Catalog No. LV510

INTRODUCTION

Oil Red O is a new chemical latent print developer that answers a long-standing problem facing the lab technician—how to develop latent prints on paper products that are wet or have been wet. Other chemical processes such as Ninhydrin, DFO and Physical Developer have proven to be ineffective under these circumstances. ORO is a lipid protein stain used in biological research and, when used in forensic applications, it does not depend on the presence of amino acids or salts. Latent prints with excellent detail have been developed in the laboratory on various paper products, cardboard and kraft papers. *(No. LV510 is for laboratory use only.)*

PRECAUTION

• Before using this product, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at www.sirchie.com/support.

• When mixing reagents, wear gloves, dust respirator, chemical resistant apron and safety goggles.

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FORMULA #1 Developer

1. Weigh out 1.54g of Oil Red O and dissolve it in 770ml of methanol.

2. Dissolve 9.2g of sodium hydroxide in 230ml of water. Add this mixture to the first solution.

3. Place the mixture on an electric stirrer for 20-30 minutes. Do not apply heat to the mixture, as this will hasten the vaporization of the methanol.

4. Filter the solution and store in a brown bottle away from light.

FORMULA #2 Buffer Solution

1. Add 101.55g of sodium phosphate monobasic monohydrate to 1 Liter of water and shake or stir until dissolved.

2. Add 338.79g of sodium phosphate dibasic heptahydrate to 1 Liter of water and shake or stir until dissolved.

3. Mix the two solutions together and add enough water to increase volume to 4 Liters. Stir until fully mixed. (*Shelf life of Formulas 1 & 2 is estimated to be up to one year if stored properly.*)

PROCEDURE

NOTE: The document may be washed in distilled water to remove dirt, stains, etc. Air-dry the document prior to development or process it wet.

1. Place the document in a stain-resistant tray and cover the document with developer. Older prints may require a longer development time. Place the tray on an electric shaker for 60-90 minutes or until prints are clearly visible.

2. Remove the document and drain off excess developer.

3. Place the document in the buffer solution briefly. This will adjust the pH of the document and stabilize it.

4. Rinse the document in distilled water and dry it. *(Documents may be air-dried or placed in an oven at 50° C to accelerate drying.)*