

IM SOP-6 Casting Impressions

Approved by Director: Dr. Guy Vallaro

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Purpose: To obtain a three dimensional record of an impression.

Responsibility: Forensic Science Examiners assigned to the Imprint Unit are responsible to follow the guidance of this procedure.

Safety: All proper personal protection equipment will be used as appropriate. MSDS on file.

Procedure:

Materials:

1. Dental stone casting material
2. Water
3. Plastic zip lock bag/mixing container
4. Scale/ruler
5. Frame material (optional)
6. Fixatives (optional)
 - Hairspray
 - Spray (clear) shellac or lacquer
7. Highlighting materials
 - Primer spray paint
 - Snow print wax

Procedures:

1. Photograph all impressions prior to casting per SOP-IM-4 Photography.
2. Prepare impression for casting.

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- If necessary, use appropriate fixatives.
 - If necessary, use appropriate highlighting materials.
 - If appropriate place framing material around impression.
3. Mix dental stone material and water to desired consistency.
 4. Pour prepared dental stone mix into and over impression.
 5. Before cast hardens, scratch appropriate identifying information on the backside of cast (i.e. initials, date, case number, direction, etc.) or write identifying information on the backside of cast with permanent marker after hardening.
 6. After cast hardens, remove from casting location and secure in appropriate evidence container.

Results:

Three-dimensional reproduction of impression.

Sources of Error: N/A

Quality Assurance: N/A

References: See Bibliography.