Ideal Evidence Substrates

- Non-porous: plastic, metal, glass, adhesive surfaces (on both sides)...
- Semi-porous: some matt and glossy papers...

Instructions & Fuming chambers

Lumicyano is compatible with all standard fuming chambers, without modification, according the hotplate can reach 120°C / 250°F

1. Place the proper amount of Lumicyano Powder into a new foil dish then disperse the powder evenly to avoid clustering. This phenomenon does not affect the efficiency of the product. Close immediately the vial after use to avoid any potential humidity absorption.

2. Add directly Lumicyano Solution™ (see further for recommended dosage) into the foil dish. Lumicyano Powder is dissolved instantly with the Lumicyano Solution. Gently move the liquid around the foil dish until you homogenize the mixture and it becomes an evenly mixed fluid.

   **IMPORTANT: Lumicyano Powder must be dissolved only with Lumicyano Solution**

3. Place the prepared foil dish with its mixture onto the hotplate. Raise hygrometry until 70/80%. Higher hygrometry may lead to overgluing. Then raise gradually the hotplate temperature to reach 120°C/250°F. Fume completely the mixture until none remains left in the foil dish.

**Recommendations**: 

- Windows of fuming chamber should be cleaned of old residues. Old cyanoacrylate residues will attract Lumicyano fluorescence.
- Hot plate must reach gradually 120°C/250°F – Slow heating up curve recommended (120°C in about 5-10 mins)
- Humidity level range MUST be between 70% and 80% - 80% is the standard value recommended

**Dosage & Timing**

Dosage and timing depends on the nature and number of exhibits in the fuming chamber, and the volume to fumigate. Lumicyano minimizes the risk to overglue the latent marks. The following recommended measures are an average to achieve the optimal results when considering average casework loads and police station equipment.

The regular concentration of the Lumicyano Powder into the Lumicyano Solution is about 5%. If needed, 8% concentration will give you stronger fluorescence.

If you don’t have a scale that can weigh milligrams, you can dose the products as follow:

- Lumicyano Powder : one full scoop (supplied) = 40 mg
- Lumicyano Solution : 33 drops = 1 gram

<table>
<thead>
<tr>
<th>Chamber capacity</th>
<th>Fuming Time</th>
<th>Quantity Lumicyano Powder</th>
<th>Quantity Lumicyano Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Small : 170 liters / 6 cub.ft</td>
<td>20 minutes</td>
<td>5% : 40 mg / 1 scoop</td>
<td>0.8 g / 26 drops</td>
</tr>
<tr>
<td>(ex : F&amp;F MVC 1000)</td>
<td></td>
<td>8% : 64 mg / 1.5 scoop</td>
<td></td>
</tr>
<tr>
<td>Medium : 650 liters / 23 cub.ft</td>
<td>25 minutes</td>
<td>5% : 135 mg / 3.5 scoops</td>
<td>2.7 g / 90 drops</td>
</tr>
<tr>
<td>(ex : F&amp;F MVC 3000)</td>
<td></td>
<td>8% : 215 mg / 5.5 scoops</td>
<td></td>
</tr>
<tr>
<td>Large : 2000 liters / 70 cub.ft</td>
<td>30 minutes</td>
<td>5% : 200 mg / 5 scoops</td>
<td>4 g / 132 drops</td>
</tr>
<tr>
<td>(ex : F&amp;F MVC 5000)</td>
<td></td>
<td>8% : 320 mg / 8 scoops</td>
<td></td>
</tr>
</tbody>
</table>

**Fluorescence & Photography**

In order to observe optimal brightness of the fluorescence, examination and photography are recommended to take place as soon as possible after the fuming cycle has been completed. Ideally, developed prints must be photographed within 24 hours.

Latent prints that have been developed must not be exposed to direct sunlight and/or high temperature environment for any long periods of time. If the developed prints are packaged in a reasonably light proof container in a fresh environment, the ridge details will still fluoresce for around 1 week following the fuming process. If required, the fluorescence can be refreshed at a later date without any loss of detail by refuming with Lumicyano.

To photograph the yellow fluorescent prints (560 nm), try the main different wavelengths and change the angle of the light so to achieve optimal results. Coloured band-pass filters are recommended to intensify the effect to obtain the best contrast.
Lumicyano is available in the following pack sizes:

- **Lumicyano Complete Kit (Powder + Solution)**
  - LK5 - 100 Kit Lumicyano - 5 gm Powder + 100 gm Solution
  - LK1 - 20 Kit Lumicyano - 1 gm Powder + 20 gm Solution

- **Lumicyano Powder** (to be used with Lumicyano Solution)
  - LP5 - 1 Bottle of 5 gm

- **Lumicyano Solution** (to be used with Lumicyano Powder)
  - LS200 - Lumicyano Solution - 200 gm (10 bottles of 20 gm)

- **Lumicyano Sample Kit**
  - LKSAMP - Sample Kit Lumicyano - 0.5 gm Powder + 10 gm Solution

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**Storage & Shelf-life**

**Lumicyano Powder - Shelf-life: one year**

Keep Lumicyano Powder out of the sunlight and store in a dark dry place, at ambient and constant temperature to prevent moisture building up inside of the bottle. Ideally store in a drying cabinet, it will last for about 1 year. Do not store in a fridge.

Out of date or badly stored Lumicyano Powder will turn to big consolidated brownish chunks. If you try to use Lumicyano Powder in this state, it may not mix properly with Lumicyano Solution by solidifying or forming small blocks. If so, it may generates residues in the foil dish and not fume properly.

**Lumicyano Solution - Shelf-life: one year**

Keep Lumicyano Solution out of the sunlight and store in a dark dry place, at ambient and constant temperature. It is recommended to avoid moisture to building up inside the bottle.

Lot number and expiration date are indicated on each bottle.

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**Optimal viewing sequence**

<table>
<thead>
<tr>
<th>Wavelength</th>
<th>Models/Recommended Color Options</th>
<th>Googles &amp; Filters</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>325 nm</td>
<td>LabinoSuperXenonLumi (50W)</td>
<td>Deep &quot;Yellow&quot;</td>
<td>Avoid fluorescent background noise</td>
</tr>
<tr>
<td>495 nm</td>
<td>SPEX Crimescope</td>
<td>Orange i.e.: Promaster YA2</td>
<td>Especially recommended for white/multicolour and/or highly reflective surfaces</td>
</tr>
<tr>
<td>515 nm</td>
<td>SPEX Crimescope</td>
<td>Orange i.e.: Promaster YA2</td>
<td></td>
</tr>
<tr>
<td>532 nm</td>
<td>Coherent TracER Laser</td>
<td>Deep Orange</td>
<td></td>
</tr>
</tbody>
</table>

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**Technical information, availability:**

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