Moschellandsbergite \( \text{Ag}_2\text{Hg}_3 \)

### Crystal Data:
Cubic. **Point Group:** 4/m 3 2/m. As dodecahedral crystals commonly modified by the cube, octahedron, and trapezohedron, to 1 cm; also massive, granular.

### Physical Properties:
**Cleavage:** \{011\} and \{001\}, distinct. **Fracture:** Conchoidal. **Tenacity:** Brittle. **Hardness:** = 3.5 \( \text{VHN} = 147\text{–}159, 153 \text{ average (100 g load).} \)
\[ \text{D(meas.)} = 13.48 \quad \text{D(calc.)} = 13.5 \]

### Optical Properties:
Opaque. **Color:** Silver-white. **Luster:** Bright metallic.
\[ \text{R: (400) 73.5, (420) 74.6, (440) 75.7, (460) 76.9, (480) 78.2, (500) 79.5, (520) 80.7, (540) 81.7, (560) 82.6, (580) 83.3, (600) 83.7, (620) 84.0, (640) 84.2, (660) 84.4, (680) 84.5, (700) 84.7 \]

### Cell Data:
**Space Group:** \( \text{Im3m} \). \( a = 10.04 \quad Z = 10 \)

### X-ray Powder Pattern:
Landsberg, Germany.
\[ 2.36 \text{ (100), 1.365 (70), 1.236 (60), 1.275 (50), 0.941 (50), 0.799 (50), 2.67 (40) } \]

### Chemistry:

<table>
<thead>
<tr>
<th></th>
<th>(1)</th>
<th>(2)</th>
<th>(3)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ag</td>
<td>27.04</td>
<td>26.48</td>
<td>26.39</td>
</tr>
<tr>
<td>Hg</td>
<td>72.94</td>
<td>73.44</td>
<td>73.61</td>
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<tr>
<td>Total</td>
<td>99.98</td>
<td>99.92</td>
<td>100.00</td>
</tr>
</tbody>
</table>

(1) Landsberg, Germany. (2) Sala, Sweden. (3) \( \text{Ag}_2\text{Hg}_3 \).

### Occurrence:
Probably of low-temperature hydrothermal origin.

### Association:
Metacinnabar, cinnabar, mercurian silver, tetrahedrite–tennantite, pyrite, sphalerite, chalcopyrite.

### Distribution:
From Landsberg, near Obermoschel, Rhineland-Palatinate, Germany [TL]. At Sala, Västmanland, Sweden. In the Chalanches mine, near Allemont, Isère, France. From the Gould-Curry mine, Comstock Lode, Virginia City, Storey Co., Nevada, USA.

### Name:
For the locality at Landsberg, near Obermoschel, Germany.

### Type Material:
n.d.

### References: