Eight samples, 25 sperm cells in each sample collected by laser microdissection (LCM), were processed using ‘subtractive’ DNA purification and post-PCR purification and concentration as described in Materials and Methods. Figure 1 shows representative images of PEN membrane slide stained with Sperm HY-LIGHTER (IFI, USA) and laser microdissected using PALM MicroBeam system (Zeiss, Germany). Table 1 shows percent recovery of alleles (PowerPlex Fusion PCR amplification kit). The corresponding electropherograms are shown on pages 2 - 5.

**Figure 1.** PEN membrane slide stained with Sperm HY-LIGHTER (A); section of PEN membrane slide before LCM (B) and after LCM (C).

**Table 1.** DNA recovery from 25 sperm cells samples collected by LCM

<table>
<thead>
<tr>
<th>Sample</th>
<th>Alleles &gt;50 RFU (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>38 (81%)</td>
</tr>
<tr>
<td>2</td>
<td>44 (94%)</td>
</tr>
<tr>
<td>3</td>
<td>41 (87%)</td>
</tr>
<tr>
<td>4</td>
<td>43 (91%)</td>
</tr>
<tr>
<td>5</td>
<td>45 (96%)</td>
</tr>
<tr>
<td>6</td>
<td>43 (91%)</td>
</tr>
<tr>
<td>7</td>
<td>37 (79%)</td>
</tr>
<tr>
<td>8</td>
<td>36 (77%)</td>
</tr>
</tbody>
</table>

Average: 41 (87%)
Materials and methods that allow fingerprint analysis and DNA profiling from the same latent evidence

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DNA-STR profiles from 25 sperm LCM samples

Electropherograms of DNA-STR profiles obtained from 25 sperm cells collected by LCM:

Sample 1:

Sample 2:
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DNA-STR profiles from 25 sperm LCM samples

Sample 3:

![DNA-STR profile for Sample 3]

Sample 4:

![DNA-STR profile for Sample 4]
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DNA-STR profiles from 25 sperm LCM samples

Sample 5:

Sample 6:
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DNA-STR profiles from 25 sperm LCM samples

Sample 7:

![Sample 7 DNA-STR profile graph]

Sample 8:

![Sample 8 DNA-STR profile graph]