

## Genes in a Bottle: Risk Assessment

<b>Activity</b>	<b>Hazard</b>	<b>Precaution</b>	<b>Risk</b>
Collecting cheek cells	<ul style="list-style-type: none"> <li>Mouthwash samples: Biohazard</li> </ul>	<ul style="list-style-type: none"> <li>Students only handle their own samples</li> <li>Any spills cleaned up using appropriate cleaning products</li> <li>All samples disposed of safely at end of workshop</li> </ul>	Low
Cheek cell lysis	<ul style="list-style-type: none"> <li>Lysis buffer (detergent): Emetic</li> </ul>	<ul style="list-style-type: none"> <li>Students warned not to drink</li> <li>Students advised to wash hands if any is spilled</li> </ul>	Very low
DNA precipitation	<ul style="list-style-type: none"> <li>Alcohol (Industrial methylated spirit): Toxic</li> </ul>	<ul style="list-style-type: none"> <li>Small quantities pre-dispensed into sealed tubes</li> <li>Students warned not to drink</li> <li>Students advised to wash hands if any is spilled</li> </ul>	Very low
	<ul style="list-style-type: none"> <li>Alcohol (Industrial methylated spirit): Flammable</li> </ul>	<ul style="list-style-type: none"> <li>No naked flames in lab</li> <li>Any spillages wiped up immediately</li> </ul>	Very low
DNA pendants	<ul style="list-style-type: none"> <li>Cuts from broken glass vials</li> </ul>	<ul style="list-style-type: none"> <li>Students advised to handle vials with care</li> <li>Activity supervised</li> <li>Demonstrator to clear up any broken glass immediately</li> </ul>	Very low