

## Bacteria Investigation: Risk Assessment

Activity	Hazard	Precaution	Risk
E. coli tests:	<ul style="list-style-type: none"> <li>'Stool sample' (FeCl<sub>3</sub> in HCl): FeCl<sub>3</sub> is an irritant above 0.2M and HCl is an irritant above 2M</li> </ul>	<ul style="list-style-type: none"> <li>Dilute solution used (0.1M FeCl<sub>3</sub> in 0.2M HCl)</li> <li>Droppers used to handle solution</li> <li>Eye protection worn</li> <li>Any spillages mopped up immediately by demonstrator</li> </ul>	Very low
	<ul style="list-style-type: none"> <li>'Antibody' (1M NaOH): Corrosive</li> </ul>	<ul style="list-style-type: none"> <li>Solution clearly labeled 'Corrosive'</li> <li>Droppers used to handle solution</li> <li>Eye protection worn</li> <li>Any spillages mopped up immediately by demonstrator</li> </ul>	Low
Cell count	None identified	None required	None
Heat killing demonstration	<ul style="list-style-type: none"> <li>Scalds from boiling water</li> </ul>	<ul style="list-style-type: none"> <li>Carried out by a trained demonstrator</li> <li>Students kept at a safe distance</li> </ul>	Very low