

RISK ASSESSMENT - GENETICS

Activity	Hazard	Persons in Danger	Severity x Likelihood = Risk Level			Control Measures
General Workshop hazards	Children not following instructions Children not using equipment in an appropriate manner	Workshop attendees	3	1	3	Appropriate supervision must occur at all times by teacher or other responsible adult from the school. Instructions for appropriate conduct during activity must be given to the audience/attendees.
Melting/boiling agarose gel plates	Burns/scalds	Presenter/pupils	2	2	4	Take care when using hot plate, use heat proof gloves when handling hot containers. If letting pupil pour their own plates supervise, and ensure heat proof gloves are used.
1% EDTA Buffer	Ingestion, eye or skin irritation	All	2	2	4	Safety goggles and latex gloves must be worn by all participants in contact with buffer solution. Buffer solution is at a significantly low concentration to be graded as low hazard, however all in contact with it should still be advised not to ingest, to avoid eye contact and to wash hands after use.
Using micropipettes	Using in an inappropriate manner/pointed end causing damage	All	2	2	4	Workshop should only be run with age appropriate pupils (KS3 and above). Pupils should be taught to use a micropipette correctly.
DNA extraction using washing up liquid & alcohol	Ingestion, eye or skin irritation	All	2	2	4	Latex gloves provided in case skin irritation occurs from any of the chemicals. Pupils advised not to ingest any of the chemicals, to avoid contact with eyes and wash their hands afterwards.