



General Risk Assessment

Form RA1

(Refer to Notes for Guidance before completing this form)

School Assessment No:	R(D)SVS/The Roslin Institute					
Title of Activity:	See DNA (RI/GG/02)					
Location(s), Date and						
Time of Work:						
Brief Description of Work:						

See DNA is an activity for the general public or school pupils.

Participants will extract DNA from strawberries (or a substitute fruit) using a mixture of washing up liquid and salt. DNA will be precipitated using ethanol.

Hazard Identification:

Hazard(s)	Present	Control Measures	Risk
	Risk	(i.e. alternative work methods /	Evaluation
	Evaluation	mechanical aids / engineering	after control
	L/M/H	controls etc.)	L/M/H
Pasteur pipettes	L	Participants will be instructed in	L
could cause eye		the proper use of Pasteur	
injuries		pipettes to accurately measure	
		liquids.	
Sandwich bags	L	Participants will be supervised at	L
potential choking		all times during the activity.	
hazard			
Ethanol can cause	М	Participants will receive a verbal	L
irritation to skin		safety warning before using	
and eyes and is		ethanol.	
toxic if ingested.			
		Aliquots of required volumes of	
		ethanol are prepared	
		beforehand, to minimise the risk	
		of splashes and spillages when	
		pouring. Participants will be	
		supervised at all times while using	

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		ethanol and will only handle	
		these small volumes.	
		Absorbent towels will be	
		available to handle any spillages	
		which occur.	
		Participants will wear nitrile	
		gloves, lab coats and safety	
		glasses while handling ethanol.	
		Strawberry mixture containing	
		ethanol will be bulked in a	
		winchester bottle, brought back	
		to campus, and disposed of	
		appropriately.	
Ethanol is	М	Ethanol in small aliquots will be	L
flammable		clearly labelled as flammable and	-
hannable		transported in a metal fire-proof	
		container.	
		Ethanol will be kept away from	
		naked flames and	
		stored/transported in cool	
		conditions.	
		Absorbent towels will be	
		available to handle any spillages	
		which occur.	
Strawberries are	Н		L
	п	Strawberries are only handled	L
a potential		and not eaten during this activity.	
allergen		Participants will be asked to	
		Participants will be asked to	
		identify whether they have a	
		strawberry allergy before starting	
		the activity. Banana or kiwi fruit	
		will be substituted in these cases.	
		Those with allergies will not	
		handle any equipment which has	
		come into contact with	
		strawberries.	

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Engineering Controls:

Guarding		Extraction (LEV)		Interlocks		Enclosure	
Other relevant information (incl. testing frequency if appropriate):							

Personal Protective Equipment (PPE):

	-							
Eye / Face	Х	Hand /Arm	х	Feet / Legs	Respiratory			
Body (clothing)		Hearing		Other (Specify))			
Specify the grade(s) of PPE to be worn: Nitrile gloves and safety glasses								
Specify when during the activity the item(s) of PPE must be worn: During ethanol handling								
Non-disposable items of PPE must be inspected regularly and records retained for inspection								

Persons at Risk:

Academic staff	х	Technical staff	х	P'Grad students	х	U'Grad students	
Maintenance		Office staff	х	Cleaning staff		Emergency	
staff						personnel	
Contractors		Visitors	х	Others			

Additional Information: Identify any additional information relevant to the activity, including supervision, training requirements, special emergency procedures, requirement for health surveillance etc.

All staff and students will receive training, including H&S aspects, before running the activities for the public.

Children taking part in the activities will be accompanied by a responsible adult at all times.

Assessment carried out by:

Name:	Date:	
Signature:	Review	
	Date:	