

RISK ASSESSMENT DETAILS

RISK ASSESSMENT TITLE

French Pressure Cell

RISK ASSESSMENT COMPLETED BY:

Kate Millan – Health & Safety Officer

SUBJECT MATTER EXPERT:

RA NUMBER:

138MBS

VERSION:

1

VERSION DATE:

24/02/2011

REVIEW DATE:

24/02/2016

IMPORTANT NOTES

PERSONS AT RISK

Users of the equipment

REFERENCED DOCUMENTATION: (list any other sources of information that relates to this risk assessment, e.g. SOPs, other Risk Assessments etc)

OVERALL RISK RATING

Low - Medium

HAZARD IDENTIFICATION & RISK ASSESSMENT (use the Risk Matrix below to assess the risk)

HAZARD 1:

Mechanical

ASSOCIATED RISKS:

Inappropriate materials put in the press such as sand, glass, dirt etc could result in an explosion causing property damage and bodily injury.

MEASURES REQUIRED TO REDUCE RISK:

1. Users must follow the Safe Operating Procedures for the equipment.
2. Users must be trained in the equipment and safety prior to use.
3. The French Press must only be used with samples of plant or animal cells only.
4. Never use any corrosive solutions in the equipment.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Moderate

LIKELIHOOD

Rare

RISK RATING

Low

HAZARD 2:

Mechanical

ASSOCIATED RISKS:

If the cell is not seated properly, it can be damaged under pressure or potentially ejected from the press causing injury to the operator. The condition of O Rings and cell components may cause damage to the equipment or may cause leaks during a run.

MEASURES REQUIRED TO REDUCE RISK:

1. Users must follow the Safe Operating Procedures for the equipment.
2. Users must be trained in the equipment and safety prior to use.
3. Pressure cell must be seated firmly between the aligning pins and flat on the lower platen BEFORE pressure is applied.
4. All parts including O Rings and cell components should be checked for damage prior to use.
5. The French Pressure Cell must NOT be used if any components are found damaged or in poor condition.
6. Ensure oil level is sufficient.
7. Ensure that cells are cleaned and dried after use.

RESIDUAL RISK (When all control measures have been implemented)

CONSEQUENCE

Moderate

LIKELIHOOD

Unlikely

RISK RATING

Medium

HAZARD 3:

Electrical			
ASSOCIATED RISKS:			
Electric shock from electrical components of the equipment.			
MEASURES REQUIRED TO REDUCE RISK:			
<ol style="list-style-type: none"> Equipment must have a current electrical test tag. Equipment must be maintained as per manufacturer's recommendations. 			
RESIDUAL RISK (When all control measures have been implemented)	CONSEQUENCE	LIKELIHOOD	RISK RATING
	Major	Rare	Medium
HAZARD 4:			
Biological/Infectious material			
ASSOCIATED RISKS:			
Exposure to biological and infectious material			
MEASURES REQUIRED TO REDUCE RISK:			
<ol style="list-style-type: none"> Users must follow the Safe Operating Procedures for the equipment. Users must be trained in the equipment and safety prior to use. Appropriate PPE including latex/nitrile gloves, safety glasses and a lab coat must be worn. 			
RESIDUAL RISK (When all control measures have been implemented)	CONSEQUENCE	LIKELIHOOD	RISK RATING
	Moderate	Rare	Low
ADDITIONAL CONTROLS AFTER REVIEW			
RISK CONTROL:			
DATE OF REVIEW:		REVIEWED BY:	
RISK CONTROL:			
DATE OF REVIEW:		REVIEWED BY:	
RISK CONTROL:			
DATE OF REVIEW:		REVIEWED BY:	
HAZARD REGISTER			
If the residual risk is high or very-high after controls have been implemented, the risk assessment must be signed off by the Head of School and transferred to the Hazard Register.			
DATE ENTERED ON HAZARD REGISTER:		HEAD OF SCHOOL SIGNATURE:	
RISK MATRIX			

Consequence

		Negligible	Minor	Moderate	Major	Severe
Likelihood	Almost Certain	M	H	V	V	V
	Likely	M	M	H	V	V
	Slight	L	M	H	H	V
	Unlikely	L	L	M	M	H
	Rare	L	L	L	M	M

Almost Certain	There is an expectation that such an event will occur.	Severe	Injury resulting in death or permanent disability.
Likely	There is an expectation that such an event could occur but not certain to occur.	Major	Injury requires extensive medical treatment, hospitalisation.
Slight	The expectation of this event occurring is between "could" and "improbable".	Moderate	Injury requires formal medical treatment e.g. treatment as an outpatient in a medical facility.
Unlikely	The expectation of this event occurring is doubtful or improbable.	Minor	Injury requires first aid.
Rare	There is no expectation that this event will occur.	Negligible	Injury requires minor first aid or results in short term discomfort e.g. headache, bruise etc.