

Title	Beckman Coulter A	llegra x-1	2 Centrifuge
School/Business Unit	Environmental and Rural Science	Location (building/lab/ workshop if applicable)	W55 Chemical analysis laboratory Room 327

JSA Development Date	15/3/17	JSA Development	Paul Lisle
JSA Review Date	15/3/22	Team	Oliver Knox

Relevant/Australian Standards / Codes of Practice / Legislation

 Australian Standard AS 2243.3 (2010), Safety in Laboratories: Microbiological Safety and Containment, section 10.3, pp 116-117, 'Centrifuges

Relevant Safety Data Streets (can be obtained via UNE subscription to ChemWatch)

NA

Plant&(Equipment Required

NA

Licenses Required

NA

Competencies Required

• Laboratory Induction, Training and Maintenance

PRE Required

















	Dust Mask	Face Shield	Foot Protection	Hair Net	Protective Clothing	Respirator	Sun Protection	Breathing Apparatus
Compulsory			X					, ,
As needed	Х			Х	Х			

















	Hand Protection	Hearing Protection	Safety Glasses	Safety Harness	Safety Helmet	Safety Vest	Apron/Lab Coat	Welding Mask
Compulsory	Х		x				X	
As needed								
Additional	PPE/Note	es		i sa Mara				

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Job Steps						
Job Step	Potential Haza	I	Risk Score*	Controls	3	Residual Risk*
Before loading: Check rotor yoke and buckets for any sign of corrosion or cracking. Check that yoke is firmly on drive shaft by turning T-bar clockwise. Consult user manual (IN-197C)	Corroded or cr yoke could fail fly off.	and	8	system, breaker	s, safety lock circuit on power Induction, and	4
Balancing/ Loading the buckets and carriers as per manual pages 1-8	Unbalanced be or carriers can to excessive st on yoke or sha leading to fail	lead train aft ure	9-10	by Indu	g and ce, consult	6
Unloading buckets or carriers 1. wait until the centrifuge has stopped and door lock has opened 2. Carefully remove buckets from the centrifuge 3. Carefully remove labware and samples 4. Clean-up any spills as per user manual page 25	Liquid handlin spills and cher and biological	nical safety	6	and Gui consult Use Per Protect Equipm	user manual, sonal ive ent (PPE)	4
Cleaning after use: If a spill occurs: 1. Inform laboratory	Possible exploinable hazard with so combinations acids and commaterials und	ome of tainer	5	Induction, training and Guidance, consult user manual, Use Personal		4
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^{*} The risk score and residual risk is determined by following steps 1-4 below.

STEP 1			STEP 2					
Determine	Hidipoolo	OBBUTTO NEE	પેલ્ટ કોર્માભાજ ઇ લ્લેટ	ะอกผมจุดสิทธิสายาเกา)(0.0 5)			
Risk Score	Calculator:	Definition of Terms						
Rare		cur here only in very circumstances	ปก ร ัฐกากเร _ี ยก		No personal injury; and/or No adverse media attention; and/or Financial cost under \$2000			
Unitkaly	Could occur	here at some time	William		njury (first aid treatme erage; and/or Cost \$			
Possible	May occur h	nere at some time	Mideleje	Serious personal injury (medical treatment); and/or Adverse Capital City Media Coverage; and/or Cost \$50,000-\$250,000				
Likely	Will probabl happened b	y occur here (has efore)	∀ଞ୍ଜାର	Serious Personal Injury/long term absence; and/or Adverse & Extended National media Coverage; and/or Cost \$250,000 - \$1m				
Almos! Certain	Is expected most circum	to occur here in istances	Galastrophic		term impairment; ar /or Financial cost mo			
STEP 3: D	etermine Ris	k Score		·-		•		
Risk Score	Calculator:	Matrix						
			<u>\$9</u>	vanity Consequence	9/Ç03:			
Likelikood		mseminani	Minor	Moderate	Major	Calcarroghic		
දිනල		2	3	4	5	6		
Unitaly		3	4	5	6	7		
Possible		4	5	6	7	8		
Likely —		5	6	7	8	9		
Almosi G	riein	6	7	8	9	10		

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STEP 4: Dete	rmine Risk Score Response Priority						
Risk Score	Risk Score Response						
9-10	Severe risk. Highest of priorities. Must be rectified immediately.						
8	Very high risk. Requires urgent attention for quick resolution. Temporary controls to be implemented.						
6-7	Moderate to high risk. Prompt planning and resolution required with consultation.						
4-5	Low to moderate risk. Consult and identify controls that are reasonably practicable						
3	Very low risk. Minor issue for monitoring						
2	Insignificant Risk						
STEP 5: Impl	ement the Highest Control Possible						
Hierarchy of	Controls Controls						
Eliminate the	hazard						
Substitute the	hazard with something safer						
Isolate the ha	zard from people						
Introduce eng	ineering controls						
Implement ad	ministrative controls						
Use Personal	Protective Equipment (PPE)						

Approval of JSA					
Name	FRANK LGAYR	Title	Eas Mar		
Date	3/10/17	Signature	Koroek		

Sign Off

The University shall provide information and training to workers to enable them to perform tasks safely. This section is signed by workers (and supervisors) to indicate their understanding of the Job Safety Analysis and indicates their competence to complete the job in a safe manner as deemed by their supervisor. Workers should always consult with their supervisor where there is concern about the safety of a task that effects themselves or others.

Date	Worker Name	Worker Signature	Supervisor Name	Supervisor Signature
17,000				Signature
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				h
	4			

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Records Storage Instructions

All completed JSAs are to be recorded in TRIM Container A16/3851 utilising a TRIM license in your School/Business Unit. Only the HR Team is able to view records in this container. Completed JSAs are to be published on Safety Hub for ongoing utilisation.

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