

Safety Documentation

Please select the forms you require by selecting the check boxes below.
You can select more than one.

☐ **Method Statement** ☐ **Risk Assessment** ☒ **Chemicals COSHH**

Once you have made your selections, scroll down and complete the forms.

Buttons: [+] will add a row to a list [X] will delete a row from a list

You may save this file to a local drive at any time.
When you have finished, save the file to a local drive and email it to your supervisor for authorisation.

Supervisors - There is a sign-off section at the end of the document set that must be completed.

Staff may "self authorise", (as a supervisor), but the forms must still be submitted to the DSO for approval.

IMPORTANT:

YOU **MUST NOT** START ANY PRACTICAL WORK UNTIL THESE FORMS HAVE BEEN RETURNED TO YOU
WITH **BOTH** YOUR SUPERVISOR's AND DSO's APPROVAL SIGNATURES ATTACHED.

Please complete these fields

School or Service	Wolfson School of Mechanical, Electrical and Manufacturing Engineering
Department	CBE
Originator name	Janelle Tarum, Yu Xiang, Alexandra Stolzing
email address	j.tarum@lboro.ac.uk
Location	CBE, H25, H27
Project / Activity / Task	Wellcome Project: A volatilome-based signature for age-related recovery & resilience
Supervisor Name	Alexandra Stolzing

COSHH Form

Location

CBE, H25, H27

Reference

SAF/MEME/2266 - 2271

Originator

Janelle Tarum, Yu Xiang, Alexandra S

Project / Activity / Task

Wellcome Project: A volatilome-based signature for age-related recovery & resilience

CHEMICAL NAME Primary Monoclonal/ Polyclonal Antibodies	<div>Hazard Rating<div>High</div></div>						<div><div>X</div><div>OVERALL RISK:</div><div>Low</div></div>
CAS No. <div>N/A</div>	Amount used	Period of use (hrs)	The process is:	Physical State	<div><input type="checkbox"/> Eyes</div> <div><input checked="" type="checkbox"/> Skin</div> <div><input type="checkbox"/> Inhaled</div> <div><input type="checkbox"/> Ingested</div>	<div>Exposure Potential</div> <div>Low</div>	
W.E.L. (Itel / stel)	<div>0.025</div> <div>mg</div>	<div>2</div>	<div>Semi Closed</div>	<div>Non-Volatile Liquid</div>			

Hazard Statement and Description	Precaution Statement and Description	
H313 May be harmful in contact with skin	P101 If medical advice is needed, have product container or label at hand.	X
H316 Causes mild skin irritation	P353 Rinse skin with water/shower.	X
	P262 Do not get in eyes, on skin, or on clothing.	X
	P281 Use personal protective equipment as required.	X
How will the precautions listed above be implemented?		
Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream. Occasionally, some the procedure will be undertaken within a BSC, thereby ensuring adequate ventilation and reducing the risk spillage or getting in contact with skin.		
Special Storage and Containment Measures	Disposal Method	
Must be stored in 4C or -20C (according to manufacturers instructions) appropriately labelled, with the lid being tightly closed.	Aqueous waste - the solution will be disposed after being diluted in cell culture media. It will be diluted further in Virkon in aspiration bottle. After treating with Virkon for 24h, the waste is disposed off down the drain (SOP004).	X
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. Click here to see spill procedures	
Absorbent cloth / tissue		

CHEMICAL NAME Cross-Adsorbed Fluorescence Secondary	<div>Hazard Rating<div>Low</div></div>						<div><div>X</div><div>OVERALL RISK:</div><div>Low</div></div>
CAS No. <div>N/A</div>	Amount used	Period of use (hrs)	The process is:	Physical State	<div><input type="checkbox"/> Eyes</div> <div><input type="checkbox"/> Skin</div> <div><input type="checkbox"/> Inhaled</div> <div><input type="checkbox"/> Ingested</div>	<div>Exposure Potential</div> <div>Low</div>	
W.E.L. (Itel / stel)	<div>0.01</div> <div>ml</div>	<div>1</div>	<div>Semi Closed</div>	<div>Non-Volatile Liquid</div>			

Hazard Statement and Description	Precaution Statement and Description	
No Hazard Statements applicable	P101 If medical advice is needed, have product container or label at hand.	X
	P353 Rinse skin with water/shower.	X
	P262 Do not get in eyes, on skin, or on clothing.	X

COSHH Form (Continued)

	P281 Use personal protective equipment as required.	X
How will the precautions listed above be implemented?		
Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream.		
Special Storage and Containment Measures	Disposal Method	+
Must be stored in a cool (4C), well ventilated area with the lid being tightly closed and appropriately labelled.	Aqueous waste - the solution will be disposed after being diluted in cell culture media. It will be diluted further in Virkon in aspiration bottle. After treating with Virkon for 24h, the waste is disposed off down the drain (SOP004).	X
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. Click here to see spill procedures	
Absorbent cloth / tissue		

CHEMICAL NAME						Hazard Rating	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Low</div> OVERALL RISK: <div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Low</div>
Collagen						Low	
CAS No. N/A	Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential	
W.E.L. (Itel / stel)	0.05 mg	24	Semi Closed	Non-Volatile Liquid		Low	

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P103 Read label before use.	X
How will the precautions listed above be implemented?		
Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream. The entire procedure will be undertaken within a BSC, thereby ensuring adequate ventilation and reducing the risk spillage or getting in contact with skin.		
Special Storage and Containment Measures	Disposal Method	+
Stored in -20 freezer for long term storage, short term storage fridge.	Biological waste-aspirate and treat with Virkon before disposal down the sink with copious amounts of water.	X
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. Click here to see spill procedures	
Absorbent cloth / tissue		

CHEMICAL NAME						Hazard Rating	<div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Low</div> OVERALL RISK: <div style="border: 1px solid black; padding: 5px; width: 100px; margin: 0 auto;">Low</div>
Gibco™ Low Serum Growth Supplement (LSGS)						Low	
CAS No. 10616973	Amount used	Period of use (hrs)	The process is:	Physical State	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested	Exposure Potential	
W.E.L. (Itel / stel)	5 ml	0	Semi Closed	Non-Volatile Liquid		Low	

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P103 Read label before use.	X
How will the precautions listed above be implemented?		

COSHH Form (Continued)

Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream. The entire procedure will be undertaken within a BSC, thereby ensuring adequate ventilation and reducing the risk spillage or getting in contact with skin.		
Special Storage and Containment Measures	Disposal Method	+
Stored in -20 freezer for long term storage, short term storage fridge.	Biological waste- aspirate and treat with Virkon before disposal down the sink with copious amounts of water.	x
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. Click here to see spill procedures	
Absorbent cloth / tissue		

CHEMICAL NAME Hoechst 33342 Solution (20 mM)		Hazard Rating Low		OVERALL RISK: Low
CAS No.	Amount used 0.01 ml	Period of use (hrs) 1	The process is: Semi Closed	
W.E.L. (Itel / stel)	Physical State Non-Volatile Liquid	<input type="checkbox"/> Eyes <input type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested Exposure Potential Low		

Hazard Statement and Description	Precaution Statement and Description	+
No Hazard Statements applicable	P103 Read label before use.	x
How will the precautions listed above be implemented?		
Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream.		
Special Storage and Containment Measures	Disposal Method	+
Must be stored in a cool (4'C), well ventilated area with the lid being tightly closed	Aqueous waste - the solution will be disposed after being diluted in cell culture media. It will be diluted further in Virkon in aspiration bottle. After treating with Virkon for 24h, the waste is disposed off down the drain (SOP004).	x
How will spillages be dealt with?	Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material. Click here to see spill procedures	
Absorbent cloth / tissue		

CHEMICAL NAME Human ELISA Kits		Hazard Rating High		OVERALL RISK: Low
CAS No. N/A	Amount used 0.3 ml	Period of use (hrs) 3	The process is: Semi Closed	
W.E.L. (Itel / stel)	Physical State Non-Volatile Liquid	<input type="checkbox"/> Eyes <input checked="" type="checkbox"/> Skin <input type="checkbox"/> Inhaled <input type="checkbox"/> Ingested Exposure Potential Low		

This chemical has a high health risk associated with it.

Hazard Statement and Description	Precaution Statement and Description	+
H317 May cause an allergic skin reaction.	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.	x
	P280 Wear protective gloves/protective clothing/eye protection/face protection.	x
	P272 Contaminated work clothing should not be allowed out of the workplace.	x

COSHH Form (Continued)

	P302 + P352 IF ON SKIN: Wash with plenty of soap and water.	X
	P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.	X
	P362 Take off contaminated clothing and wash before reuse.	X
Justify the use of this chemical:	Streptavidin-HRP concentrate is a vital part of the sandwich type of ELISA kit used for the detection of protein concentration in cell lysate.	
How will the precautions listed above be implemented?		
Following SOP037, all relevant PPE will be worn to ensure safe handling and avoid contact with skin. These include a standard side fastening white laboratory coat with elasticated sleeves, gloves, safety glasses. Gloves will be removed in accordance with good practice, without touching the outer surface, thereby avoiding skin contact with the substance. Once removed, used gloves will be disposed of as biohazardous waste (SOP003) and will be placed into the autoclave waste stream.		
Special Storage and Containment Measures	Disposal Method	+
Must be stored in a cool (4C), well ventilated area with the lid being tightly closed	Aqueous waste - the solution will be disposed after being diluted in cell culture media. It will be diluted further in Virkon in aspiration bottle. After treating with Virkon for 24h, the waste is disposed off down the drain (SOP004).	X
How will spillages be dealt with?	<i>Please note: any material used to clean up a spill of hazardous material must also be disposed of as hazardous material.</i> Click here to see spill procedures	
Absorbent cloth / tissue		

+ Add another chemical

Statement of work (Process to be undertaken)

Show Image

Personal protection requirements not covered in the precaution statements above.

Wear eye/face protection, gloves, lab coat

If Inhaled

Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.

In Case of Skin Contact

Immediately wash skin with copious amounts of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and wash before reuse. Consult a doctor.

In Case of Eye Contact

Flush with copious amounts of water for at least 15 minutes. Consult a doctor.

If Swallowed

Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

Sources of information and references

https://aero.bio-techne.com/en-us/sds/pdf/nb100-74435?_ga=2.83861009.627811923.1707921467-276437184.1707921467
<https://www.sigmaaldrich.com/GB/en/sds/sigma/c6745?userType=anonymous>
https://www.thermofisher.com/document-connect/document-connect.html?url=https://assets.thermofisher.com/TFS-Assets%2FSLSG%2FSDS%2F62249_MTR-EULT_BE.pdf
<https://www.thermofisher.com/uk/en/home/technical-resources/contact-us.339100.html?supportType=TS>

Reference to **existing approved** Risk Assessment

COSHH Form (Continued)

With the current controls, the risk of using these chemicals is: Low

Supervisor to check that the process involving the safe use of these chemicals has been satisfactorily evaluated

Supervisor and Departmental Safety Office (DSO) Sign-off.

Supervisors

Please check the documents above and if you want to approve them:

- 1) Electronically sign this document
- 2) Save it to a local drive (You will be prompted to do this)
- 3) eMail the signed document to the DSO.

DSO

Please review the documents above and if you want to approve them:

- 1) Enter the reference numbers as appropriate
- 2) Electronically sign this document
- 3) Save it to a local drive (You will be prompted to do this)
- 3) eMail the signed document to the originator

IF YOU DO NOT WANT TO AUTHORISE THE FORMS,

Please do not sign the form, but click the "Not Approved" check-box and return it to the originator by email stating why and what you expect them to do to put it right in the comments box below.

Not Approved

☐

Supervisors Signature

Form Reference Numbers

Risk Assessment

Method Statement

COSHH Assessment

SAF/MEME/2266 - 2271

DSO Signature

This document set must be reviewed and re-approved at the following times:

- 1) After the first occurrence of the activity described above (Review only)
- 2) After any change to the procedure or reagents used
- 3) After any incident resulting from this activity
- 4) At least annually from the date of approval

Next Review:

19 Feb 2025

Review comments