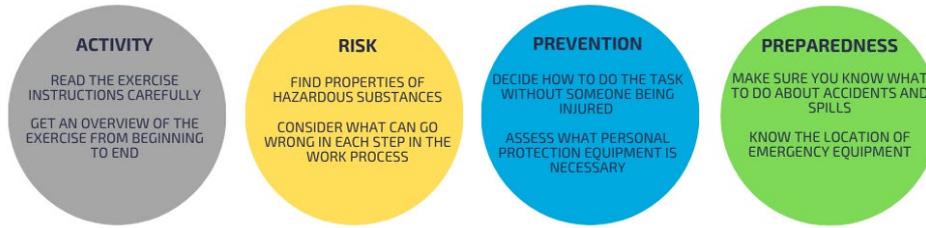


Chemical workplace assessment [Link](#)



The **STOP** principle

Substitution

Technical precautions

Organisational precautions

Personal protective equipment

Activity:

Period/date: 3/3-2026

Name(s): Amalie Heltborg (Protein Frontiers)

Project Lab Technician: Jesper Gemke

Approved: _____

1. Reagents/products (conc.) included in the activity:

A: YGC (Yeast glucose chloroamphenicol)

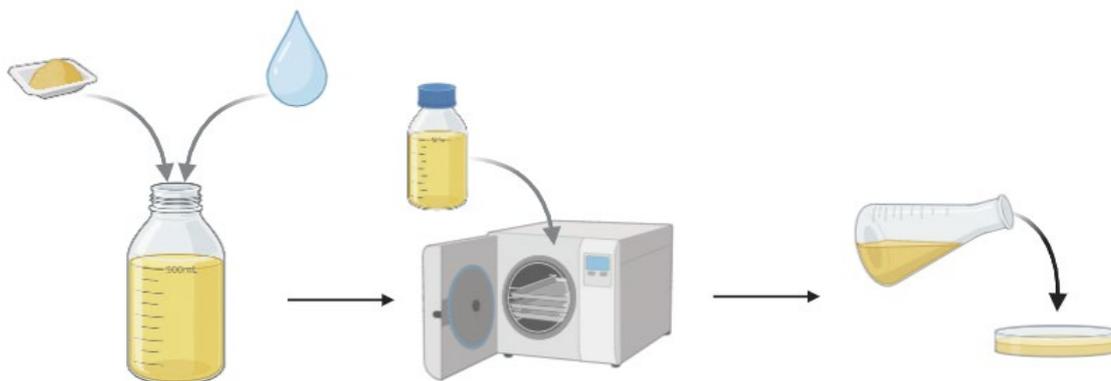
2. Name and quantity of the substances/materials included in the individual reagents:

Reagent	Total quantity of reagent prepared ([g]/[mL]/[mol])	Compound	Quantity of individual compound used [g/mL/mol]	Substitution (STOP)	CAS No./ P-number
A: YGC (Yeast Glucose Chloroamphenicol)	500 g	Yeast extract	5 g		8013-01-2
		Glucose	20 g		50-99-7
		chloramphenicol	0.1 g		56-75-7
		agar	16 g		9002-18-0

3. Process description (Analysis/Process: (STOP))

Detailed description/diagram of the work process that includes substances, materials and equipment that can contribute to the risk. Are there points during the procedure with higher risk (e.g. upon heating, mixing, ...)?

The powder is mixed with water using 20.5 g pr. 1000 mL H₂O and afterwards autoclaved. It is used for producing agar plates either for the pour plate method or direct casting of plates.



There are no specific risk points during the process. The primary is spillage during handling.

4. Safety in preparing reagents

Find hazard labelling and waste group for the concentrated substances and materials used in preparing reagents.

Substance/product	Hazard pictogram & signal word	H-phrases	P-phrases	Waste group
YGC		H350 – May cause cancer.	<p>P202 – Do not handle until all safety precautions have been read and understood.</p> <p>P280 – Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P308 + P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P501 – Dispose of contents/container in accordance with applicable local, regional, national and international regulations.</p>	H



5. Prevention and preparedness when handling pure substances while preparing individual reagents/products.

Examine special precautions, personal protective equipment (**STOP**) and other preventive measures as well as emergency preparedness in case of accident/spillage/etc.

Compound/product	Prevention (Special precautions, personal protective equipment, etc.)	Preparedness
<p>A: YGC</p>	<p>Wear appropriate gloves during usage and avoid contact with skin.</p> <p>Handle in accordance with good industrial hygiene and safety practice:</p> <ul style="list-style-type: none"> - Avoid unnecessary contact with skin and eyes. - Avoid inhalation of dust/vapours. - Ensure adequate ventilation. - Use appropriate personal protective equipment (gloves, safety glasses, lab coat, etc.). - Wash hands after handling. - Store the substance properly. - Dispose of waste appropriately. <p>Know where safety equipment is localized</p> <ul style="list-style-type: none"> - Eye washer - Emergency shower - fire hose - fire extinguisher - Cat litter and spillage blanket. 	<p>First response:</p> <ul style="list-style-type: none"> - Inhalation: Remove person to fresh air. - Skin: Rinse with water. - Eyes: Rinse with eyewash. Remove contact lenses. - Ingestion: Rinse mouth and drink water. <p>Do not provoke vomiting.</p> <p>Contact emergency personnel in case of fainting or severe health issues</p> <p>In case of spillage:</p> <ul style="list-style-type: none"> - Powder: Use vacuum with HEPA filter to vacuum up the spilled powder - Liquid: Use sand or cat litter to soak the spillage and vacuum the litter or sand with a vacuum. Otherwise use the spillage blanket for the liquid.- Skin contact: Wash skin with soap and water. Seek medical attention if skin irritation or allergic reaction occurs. - Ingestion: Rinse mouth.

6. Safety in handling reagents/products

Calculate the hazard labelling for the reagents (CLP calculator, Kemibrug.dk) and find waste groups ([sorting key](#)), special conditions regarding storage are noted. Think about dangers involved in the expected reaction product.

Reagent/product	Hazard pictogram & signal word	H-phrases	P-phrases	Waste group	Storage
A: YGC		H350 – May cause cancer.	<p>P202 – Do not handle until all safety precautions have been read and understood.</p> <p>P280 – Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P308 + P313 – IF exposed or concerned: Get medical advice/attention.</p> <p>P501 – Dispose of contents/container in accordance with applicable local, regional, national and international regulations.</p>	H	In a tightly closed container



7. Prevention and preparedness when using the individual reagent/products.

Examine special precautions, personal protective equipment (**STOP**) and other preventive measures as well as emergency preparedness in case of accident/spillage/etc. Consider, whether the required protective equipment is the same throughout the whole experiment or whether it can vary, e.g. depending on temperature.

Reagent/product	Prevention (Special precautions, personal protective equipment, etc.)	Preparedness
<p>A: YGC</p>	<p>Wear appropriate gloves during usage and avoid contact with skin.</p> <p>Handle in accordance with good industrial hygiene and safety practice:</p> <ul style="list-style-type: none"> - Avoid unnecessary contact with skin and eyes. - Avoid inhalation of dust/vapours. - Ensure adequate ventilation. - Use appropriate personal protective equipment (gloves, safety glasses, lab coat, etc.). - Wash hands after handling. - Store the substance properly. - Dispose of waste appropriately. <p>Know where safety equipment is localized</p> <ul style="list-style-type: none"> - Eye washer - Emergency shower - fire hose - fire extinguisher - Cat litter and spillage blanket. 	<p>First response:</p> <ul style="list-style-type: none"> - Inhalation: Remove person to fresh air. - Skin: Rinse with water. - Eyes: Rinse with eyewash. Remove contact lenses. - Ingestion: Rinse mouth and drink water. Do not provoke vomiting. <p>Contact emergency personnel in case of fainting or severe health issues</p> <p>In case of spillage:</p> <ul style="list-style-type: none"> - Powder: Use vacuum with HEPA filter to vacuum up the spilled powder - Liquid: Use sand or cat litter to soak the spillage and vacuum the litter or sand with a vacuum. Otherwise use the spillage blanket for the liquid.- Skin contact: Wash skin with soap and water. Seek medical attention if skin irritation or allergic reaction occurs. - Ingestion: Rinse mouth.

8. Special risks for pregnant and breastfeeding women?

(Mandatory, if any of the following H-phrases occurs for any involved step: H350 +H351, H340 + H341, H360 + H361 + H362, H310+H311+H312, H370+H371+H372 +H373). Also mandatory, if a person involved in the work is pregnant or breast-feeding.

Is the work process/area safe for pregnant or breastfeeding women? Consider all the steps involved, including the surroundings and physical hazards like ultrasound, noise, etc.

Yes No

Reasons:

9. Proposals for improving safety other than substitution (facultative)

What can be done to minimize the risks involved in this experiments?