



Risk assessment

SB/IB-Preparation of 1 litre of YPD-medium

Produced 2010-02-11 By Riskbedömare 2 Livsvetenskaper
at Systembiologi och industriell bioteknik.
Modified 2013-08-13 By Systembiologi Gemensam

Final risk assessment of the method

0. Low risk

1. State the premises in which the activity is taking place

Fysik Forskarhuset

Floor Room

Kemi forskarhus 1

Floor Room

Kemi kurshus





Floor Room

Plan 6 6112A Big lab Systems Biology
Plan 6 6116A Small lab Systems biology
Plan 6 6174B Balance room 1 GENERAL
Plan 6 6176G Autoclave room 1

2. Description of activity

Weighing of ingredients. Mixing in water. Sterilization by autoclaving.

3. Products

Product name	Concentration	Form	Quantity	Danger	Comments
Calcium chloride dihydrate CLP-legislation H319 P305 + P351 + P338 Older legislation R36 S22 , S24				 	
Calcium chloride dihydrate CLP-legislation H319 P305 + P351 + P338 Older legislation R36 S22 , S24				 	
D(+)-Glucose	20 gram	Solid			

QIAprep Spin Miniprep Kit R10 , R22 , R36/38 , R42/43 S13 , S23 , S24 , S26 , S36/37 , S46					
Tryptone	20 gram	Solid			
Yeast extract	10 gram	Solid			

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Risk phrases

R10 Flammable.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R36/38 Irritating to eyes and skin.

R42/43 May cause sensitisation by inhalation and skin contact.

Safety advice phrases

S13 Keep away from food, drink and animal feedingstuffs

S22 Do not breathe dust

S23 Do not breathe gas/fume/vapour/spray (appropriate wording to be specified by the manufacturer)

S24 Avoid contact with skin

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

S36/37 Wear suitable protective clothing and gloves

S46 If swallowed, seek medical advice immediately and show this container or label

4. Risk category

d: low risk

5. Level of exposure

6. Ventilation

Level of protection 1 - bench

7. Biological material

N/A

8. Comments on Biological material

9. Risk codes

10. Comments on risk codes

Danger of exposure to boiling water and high pressure steam in the autoclaving step.

11. Premises

ventilation

12. Comments on premises

Weighing the yeast extract and peptone should be performed with ventilation to avoid inhalation of dust-particles.

13. Protective signs

14. Comments on protective signs

15. Personal protective equipment

protective gloves , protective clothing

16. Comments on Personal protective equipment

Protective gloves must insulate from heat exposure when handling items taken out of autoclave.

17. Describe the technical equipment

Medium is sterilized in an autoclave. Use of the autoclave is not allowed without prior instruction from a responsible person.

18. Environment

19. Comments on environment

20. Waste management

21. Comments on Waste management

No specific need for waste handling are required.

22. Emergency equipment

first aid kit , emergency shower , eye shower

23. Comments on Emergency equipment

24. Hazardous actions

heating , transport

25. Comments on Hazardous actions

Heating step (Autoclaving) is potentially dangerous in case of severe equipment failure.
The transport of hot liquid from autoclave to storage cupboard involves risk of bottle breakage and/or spillage.

26. Special instructions to other personel

27. Accidental readiness

In case of spillage, the affected area will be cleaned.

28. Final risk assessment of the method

0. Low risk

29. Comments on final risk assessment and additional risk reducing measurements

No dangerous chemicals involved. Severe equipment failure of autoclaves is extremely rare.

**Signature
Supervisor**

Date

Joakim Norbeck (Associate professor)

Date of reassessment: