

# Riskbedömning

## SB/IB Sterile work/LAF-bench

Utförd **2010-05-17** Av **Riskbedömare 2 Livsvetenskaper** på **Systembiologi och industriell bioteknik**.  
Andrad senast **2019-09-26** Av **Ivan Mijakovic**

### Slutlig bedömning av hela metoden

#### 1. Acceptabel risk

#### Ange vilka lokaler bedömningen avser

Byggnad 30(b) Kemi kurs/Plan 6/6112A Big lab Systems Biology  
Byggnad 30(b) Kemi kurs/Plan 6/6116A Small lab Systems biology  
Byggnad 30(b) Kemi kurs/Plan 6/6107 Ethanol locker PCR Lab

#### Metodbeskrivning/Aktivitet

Metod


Ymp av en mikro-organism från en kultur till nytt medium.

Arbeta i LAF-bänken. Använd de pipetter och den utrustning, som finns tillgänglig i bänken. Dekontaminera arbetsytan med Desytol. Ympa genom att överföra kultur till nytt medium. Sterilisera odlingskärlens mynning eller annan utrustning i flamma innan varje arbetsmoment och direkt efter. Efter arbetet gör rent bänken med Desytol. Flytande biologiskt avfall lämnas i för detta avsedd container, kontaminerat glas sköljs ur med Desytol. Kontaminerat engångsmaterial samlas i påse avsedd för detta.

#### Produktlista

Notera att riskkategorisering enbart ska ses som vägledning

Mycket hög risk

Produktnamn	Konc.	Form	Mängd	Fara	Kommentar
<b>Metan</b> H220 , H280 P210 , P377 , P381 , P410 + P403		Gas		 	Natural gas in house

#### Faroangivelser

H220 Extremt brandfarlig gas.

H280 Innehåller gas under tryck. Kan explodera vid uppvärmning.

#### Skyddsangivelser

P210 Får inte utsättas för värme, heta ytor, gnistor, öppna lågor och andra antändningskällor. Rökning förbjuden.

P377 Läckande gas som brinner: Försök inte släcka branden om inte läckan kan stoppas på ett säkert sätt.

P381 Vid läckage, avlägsna alla antändningskällor.

P410+P403 Skyddas från solljus. Förvaras på väl ventilerad plats.

#### Riskkategori

d: Låg risk;

The valve for the natural gas should be closed when not in use. The user must read through the SOP for the lamina flow hood with burner before using.

#### Exponeringsnivå

Låg;

#### Skyddsventilation

Skyddsnivå 1 - öppen bänk;

#### Biologiskt material

Agens klass 1;

Working in LAF bench can protect sample from contamination and also avoid spores from spore forming fungi to be spread in the laboratory. If you are working with filamentous fungi, only use the dedicated LAF bench.

AFS 2005:1

Risk group 1 contains biological agents which do not normally cause infections in humans, together with non-pathogenic strains of pathogenic biological agents. Risk group 1 also includes biological agents which do not cause infection but can cause other ill-health, such as hypersensitivity or toxicogenicity, which is not connected with infections.

#### Farokoder



Natural gas  
Risk code R12 Highly flammable.  
The gas is supplied from a central system in the building.

### Lokaler

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Ventilation; Annat;

### Personlig skyddsutrustning

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Skyddshandskar; Skyddsrock;

### Beskriv teknisk utrustning

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SOP for the LAF bench and the burner is available next to the bench. Make sure to clean the bench with 70% Ethanol before and after your work. Remove your things from the bench (samples, pipette tips, sterile loops, etc.) once you are done.

### Avfallshantering

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Radioaktivt avfall;

Liquid biological waste is collected in assigned container. Solid biological wastes are collected in assigned bags to be autoclaved and disposed as general waste.

Solid chemical wastes are discarded in the assigned box and liquid chemical wastes are collected in a container, then sent to a company for proper disposal.

### Nödutrustning

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Förstahjälpentavla; Nöddusch; Ögondusch; Brandsläckare vatten; Brandsläckare skum; Brandsläckare kolsyra; Brandfilt;  
Absorberande ämne;

Natural gas

#### ACCIDENTAL RELEASE MEASURES

Use protective clothing. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Evacuate area. Ensure adequate air ventilation. Eliminate ignition sources. Try to stop release. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Ventilate area.

Respiratory protection is not needed unless gas displaces the air and causes deficiency of oxygen and possibility of asphyxiation. Symptoms may include loss of mobility/consciousness. In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if breathing stopped. Incomplete combustion may form carbon monoxide

Do not extinguish a leaking gas flame unless absolutely necessary. Spontaneous/explosive re-ignition may occur. Extinguish any other fire.

Fire-fighting

Dry chemicals. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.  
Improper extinguishing media Do not use water jet.

Inhalation; Fresh air and rest. Get medical attention if any discomfort continues. Perform artificial respiration if breathing has stopped.

Skin contact; Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact; Rinse the eye with water immediately. Make sure to remove any contact lenses from the eyes before rinsing. Contact physician if discomfort continues.

Ingestion; Drink a few glasses of water or milk. Do not induce vomiting. Contact physician if larger quantity has been consumed.

### Arbetsmoment och omständigheter som är riskfyllda

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Ventilationsavbrott; Annat;

Keep gas/flame at proper distance to flammable chemicals.

### Beredskap inför olyckor och spill

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Use protective clothing. Localize (have in close vicinity) fire-extinguisher

### Slutlig bedömning av hela metoden

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1. Acceptabel risk;

**Signatur Ansvarig chef**

Christer Larsson

**Datum**

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**Riskbedömning : SB/IB Sterile work/LAF-bench**

**Datum för nästa bedömning:**

**2022-09-01**