



# Risk assessment SB/IB-Gel electrophoresis w GelRed

Produced 2012-02-02 By Riskbedömare 2 Livsvetenskaper  
at Systembiologi och industriell bioteknik.  
Modified 2013-08-23 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

### 2. Description of activity

Electrophoretic run of DNA and RNA in agarose gels using electrophoresis equipment.

### 3. Products

Product name	Concentration	Form	Quantity	Danger	Comments
Agarose		Solid			
DNA Typing Grade 50x TAE Buffer (old)		Solution			
GelRed Nucleic Acid Gel Stain, 10,000X in water		Solution			
MOPS, sodium salt R36/37/38 S26 , S36		Solution			

#### Risk phrases

R36/37/38 Irritating to eyes, respiratory system and skin.

#### Safety advice phrases

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

S36 Wear suitable protective clothing

**4. Risk category**

d: low risk

**5. Level of exposure**

Low

**6. Ventilation**

Level of protection 1 - bench

**7. Biological material**

class 1

**8. Comments on Biological material**

DNA, RNA from microorganisms, mainly *S.cerevisiae*

**9. Risk codes**



**10. Comments on risk codes**

Gloves should be worn when handling the chemicals, as well as safety glasses.

**11. Premises**

**12. Comments on premises**

**13. Protective signs**

chemicals

**14. Comments on protective signs**

**15. Personal protective equipment**

protective glasses , protective gloves , protective clothing

**16. Comments on Personal protective equipment**

Avoid contact with skin and eyes

**17. Describe the technical equipment**

Power supply, and electrophoretic chambers.

**18. Environment**

emission to water

**19. Comments on environment**

Chemicals are not considered to have a negative effect on the environment.

**20. Waste management**

chemical waste

**21. Comments on Waste management**

Gels are collected in labeled cardboard boxes and handed over to Stena Recycling.

**22. Emergency equipment**

absorbing substance

**23. Comments on Emergency equipment**

In case of accidental large spills of solutions, use special absorbance material found in Big lab, Small lab and Balance room.

**24. Hazardous actions**

**25. Comments on Hazardous actions**

None

**26. Special instructions to other personel**

None

**27. Accidental readiness**

Absorbance material found on shelves in Big lab, small lab and Balance room in case of spill.

**28. Final risk assessment of the method**

0. Low risk

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

**Signature  
Supervisor**

**Date**

**Christer Larsson**

**Date of reassessment:**