



# Risk assessment SB/IB-Thermal Cycler (PCR)

Produced 2010-05-11 By Riskbedömare 2 Livsvetenskaper  
at Riskbedömningar Livsvetenskaper.

Modified 2011-04-07 By Riskbedömare 2 Livsvetenskaper

## Final risk assessment of the method

0. Low risk

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

### 2. Description of activity

### 3. Products

Product name	Concentration	Form	Quantity	Danger	Comments
--------------	---------------	------	----------	--------	----------

### 4. Risk category

### 5. Level of exposure

### 6. Ventilation

### 7. Biological material

### 8. Comments on Biological material

### 9. Risk codes

### 10. Comments on risk codes

### 11. Premises

### 12. Comments on premises

**13. Protective signs**

**14. Comments on protective signs**

**15. Personal protective equipment**

protective glasses , protective gloves , protective clothing

**16. Comments on Personal protective equipment**

Standard lab personal protective equipment

**17. Describe the technical equipment**

Thermal cyclers change temperatures to facilitate the PCR reaction. The tubes go in the block, which can vary in temperature from 40C to 99oC. The lid is heated to avoid condensation of liquid on the top of the tubes. The lid is typically at 105oC.

These upper temperatures can cause burns and should be dealt with carefully. Do not open the thermal cycler when the machine is running.

**18. Environment**

**19. Comments on environment**

**20. Waste management**

**21. Comments on Waste management**

**22. Emergency equipment**

fire-extinguisher foam , fire-extinguisher carbonic acid

**23. Comments on Emergency equipment**

Possible electric fire risk

**24. Hazardous actions**

**25. Comments on Hazardous actions**

**26. Special instructions to other personel**

**27. Accidental readiness**

**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:**