Risk assessment
SB/IB-Thermal Cycler (PCR)

Produced 2010-05-11 By Riskbedömare 2 Livsvetenskaper
at Systembiologi och industriell bioteknik·
Modified 2015-11-09 By Cecilia Sundelin

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 4oC 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: