



# Risk assessment SB/IB-Rotary Shakers / Incubators

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## Final risk assessment of the method

1. Acceptable 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
Ammonium sulfate (mass)					

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**

Rotary shakers are kept at a constant temperature (typically 30 or 37 oC) and are agitated to keep cells suspended and aid in aeration.

To use:

1 Stop shaker

2 Put shake flasks in proper position

- On adhesive shakers, make sure bottoms are clean so they will stick well

- On bar holders, tighten bar carefully, make sure they are straight.

3 Turn on shaker

**18. Environment**

**19. Comments on environment**

**20. Waste management**

infectious radioactive or sharp waste , biological waste

**21. Comments on Waste management**

Shake flasks should be sterilized after use. Refer to shake flask protocol.

Shakers often have spilled cells on them, so consider the shake flasks contaminated at all times.

Glass shake flasks can break. Take care to clean up all the broken glass and be careful for sharp pieces of glass. Boxes for contaminated glass waste in Analytical lab and Small lab, for clean broken glass in autoclave room.

**22. Emergency equipment**

fire-extinguisher foam , fire-extinguisher carbonic acid

**23. Comments on Emergency equipment**

Possible electric fire risk

Possible sharp, broken glass risk

**24. Hazardous actions**

night work

**25. Comments on Hazardous actions**

Do not be alone in the lab while operating orbital shakers.

**26. Special instructions to other personel**

**27. Accidental readiness**

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

1. Acceptable risk

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

**Signature  
Supervisor**

**Date**

Christer Larsson

**Date of reassessment:**