Preparation of sodium bicarbonate ear drops
Teacher and technician sheet

Health and safety note
Make sure that students wear eye protection.

Preparation of Sodium Bicarbonate Ear Drops
Equipment and materials
Each student or pair of students will require:
- 250 cm$^3$ beaker
- 100 cm$^3$ measuring cylinder
- Glass rod
- Spatula
- Storage bottle
- Sodium hydrogencarbonate
- Glycerol
- Deionised water
- Balance

Density of Sodium Bicarbonate Ear Drops
Equipment and materials
Each student or pair of students will require:
- 10 cm$^3$ measuring cylinder
- 100 cm$^3$ beaker

Calculations
It might be useful to spend a little time discussing the concepts of accuracy and precision. Explain to students the difference between repeatability and reproducibility.

Sodium Bicarbonate Ear Drops assay
If students are not familiar with risk assessments, explain what is needed. Remember that a student’s risk assessment is not sufficient. It must be checked, modified if necessary and agreed by a qualified person.