

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 cm³ beaker
- 100 cm³ 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 cm³ measuring cylinder
- 100 cm³ 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.**