**Effervescent Enzymes: Catalase Activities**

**Technical Guide**

For each of the activities 1% hydrogen peroxide needs to be made up fresh just before use and stored in the fridge.

Activity 1

***Materials per pupil / group***

Small pieces of fruit /veg/meat to test

5 universal bottles

25cm3 measuring cylinder

Forceps

Scalpel/knife

Filter paper discs

Stopwatch

1% hydrogen peroxide

**Note**

Filter paper discs can be bought in from many suppliers. To keep cost down, discs can be cut from filter paper using a cork borer or hole-punch.

Activity 2

***Materials per pupil / group***

5 disposable pipettes

1% hydrogen peroxide

25cm3 measuring cylinder

6 universal bottles (a clean universal should be used for each sample)

Forceps

Stopwatch

Filter paper discs

Yeast cell, or algae samples: stock culture, 10-1, 10-2, 10-3, 10-4 dilutions

**Note**

If using yeast, make a stock solution by adding 1g of dried yeast to100cm3 water. For an algal stock, take a strong mixture of culture and make up to 100cm3.