

# Indigo Carmine – Technician's Notes

## Advance Preparation



### **Chemicals**

Glucose (D-Glucose (2.4 g))

Sodium Hydroxide (NaOH (1.4 g))

Water (100 ml)

Indigo carmine solution (a microspatula of indigo carmine in about 20 ml water – enough to make it dark blue!)

### **Equipment**

Jar (one with a well sealed lid is best – not a lid with a cardboard insert)

Measuring cylinder

### **Preparation**

1. Dissolve the glucose and sodium hydroxide in the water
2. Add a drop of the indigo carmine solution until a light green colour is produced.
3. Leave the jar to stand for a few minutes

**The solution should change colour from green to red to yellow**

4. Once the colour change has stopped (yellow), give the jar a good shake.

**A quick shake should turn the solution red and a longer shake should turn it green**

5. Leave the jar to stand for a few minutes

**You can keep repeating the sequence. Add a couple drops of the indigo carmine solution if the colour starts to fade**

6. Leave the jar ready for the teacher along with the indigo carmine solution so it can be “topped up”.