

Edexcel A Biology A Level: Core Practicals

CP1: Investigate the Effect of Caffeine on Heart Rate in *Daphnia*

As caffeine concentration increases, heart rate should also increase, as caffeine is a cardiac stimulant

Method

1. Place a few strands of cotton onto a cavity slide; this will restrict the movement of the water flea
2. Use a pipette to transfer a large water flea onto the slide. Remove the water around the flea then add one or two drops of the relevant caffeine solution. Use as much water as possible and do not use a cover slip – these precautions maintain sufficient oxygen supply
3. View the *Daphnia* under low power and focus on the heart. Allow acclimatisation time of four minutes under the light
4. Let one person use a stopwatch to time 15 seconds, whilst another counts the number of heartbeats in this time by making pencil markings every time a pulse is seen. Record the heart rate for three periods of 15 seconds to calculate the reliable average.
5. Ensure the study is blind, so the person counting the heart rate is unaware of the caffeine concentration and the test is void of bias
6. Repeat using other water fleas and caffeine solutions, with a control using distilled water (0% concentration)

Independent Variable	Concentration of caffeine in solutions, %
Dependent Variable	Heart rate of <i>Daphnia</i> , bpm
Control Variables	<ul style="list-style-type: none">• Size of <i>Daphnia</i> used – approximate size should be large• Type of <i>Daphnia</i> – use <i>Daphnia Magna</i>• Volume of caffeine solution added – 3 drops using pipette• Acclimatisation time – 4 minutes• Temperature – always place over light microscope
Sources of Error and how this error was minimised	<ul style="list-style-type: none">• Left for too long under microscope (random error) – exactly time four minutes• <i>Daphnia</i> moving around can make it hard to count heart beats (random error) – place <i>Daphnia</i> in cotton wool to limit movement• Water from <i>Daphnia</i> extraction may have diluted the caffeine concentration (random error) – use a paper towel to dry around the water flea to remove this water• Heart rate counted only for short time so may have missed a few heart beats when calculating beats per minute (systematic error) – take repeats and average
Justify Use of Organism	<ul style="list-style-type: none">• <i>Daphnia</i> was used as it was small enough to be viewed under a microscope, and its transparent body allowed observation of the heart. Since it is an aquatic organism, it is able to take in caffeine from the solution• Invertebrates do not feel pain• However, they are still living organisms so should be handled with respect

CP2: Investigate the Vitamin C Content of Food and Drink

The lower the volume of juice required, the higher the Vitamin C concentration.

Method

1. Pipette 1cm³ of blue DCPIP into a test tube.
2. Using a burette, add 1% Vitamin C solution dropwise. Shake the tube gently after each drop
3. Continue until the blue colour just disappears. Record volume needed for decolourisation.
4. Calculate the mass of Vitamin C required to decolourise 1cm³ of DCPIP, using this measurement, given that 1cm³ of 1% Vitamin C concentration contains 10mg of Vitamin C. This will form the basis of later calculations.

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Richard Parsons



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