

Edexcel Biology

International A-level

CP 02 - Vitamin C content of food and drink

Flashcards

How is Vitamin C tested for?

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By adding DCPIP solution. Vitamin C decolourises blue DCPIP solution.

Outline the procedure to find the vitamin C content of different fruit juices.

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1. Add Vitamin C solution dropwise to 1 cm³ of DCPIP solution. Measure the volume of Vitamin C taken to decolourise it.
2. Repeat step 1 twice more and find the mean volume of vitamin C taken.
3. Repeat steps 1-2 for each of the fruit juices tested.

How is the Vitamin C content of the unknown fruit juices calculated?

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Concentration =

Concentration of Vitamin C solution x

Mean volume of 1% Vitamin C solution / Mean volume of fruit juice

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The colour change at the end-point may be difficult to determine, especially if the fruit juices tested are coloured.