

0 5

Scientists measured the mean amino acid concentration in white wines made from grapes grown organically and white wines made from grapes that were not grown organically.

0 5 . 1

Which test could the scientists have used to identify that there are amino acids in white wine?

[1 mark]

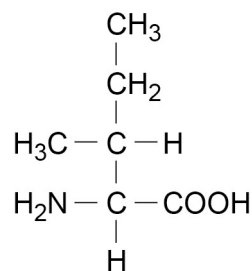
0 5 . 2

All amino acids have the same general structure. **Figure 4** shows the structure of the amino acid isoleucine.

Draw a box around the part of the molecule that would be the same in all amino acids.

[1 mark]

Figure 4



Isoleucine

0 5 . 3

Name the chemical element found in all amino acids that is **not** found in triglycerides.

[1 mark]



0 5 . 4

The scientists used a statistical test to determine whether there was a significant difference in the amino acid concentration in the two types of white wine. They obtained a value for P of 0.04.

Name the statistical test the scientists used and give a reason for your answer.

Was the difference significant? Give a reason for your answer.

[3 marks]

Name of statistical test _____

Reason for choice _____

Explanation of test result _____

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Turn over for the next question

Turn over ►

