

5 Lactic acid, $\text{CH}_3\text{CH}(\text{OH})\text{COOH}$, is formed in the human body during metabolism and exercise. This acid is also formed by the fermentation of carbohydrates such as sucrose, $\text{C}_{12}\text{H}_{22}\text{O}_{11}$

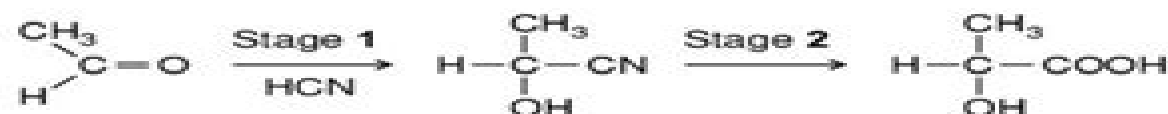
5 (a) (i) Give the IUPAC name for lactic acid.

.....
(1 mark)

5 (a) (ii) Write an equation for the formation of lactic acid from sucrose and water.

.....
(1 mark)

5 (b) A molecule of lactic acid contains an asymmetric carbon atom.
The lactic acid in the body occurs as a single enantiomer.
A racemic mixture (racemate) of lactic acid can be formed in the following two-stage synthesis.



5 (b) (i) Name and outline a mechanism for Stage 1.

Name of mechanism

Mechanism

(5 marks)

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A Gutmann



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