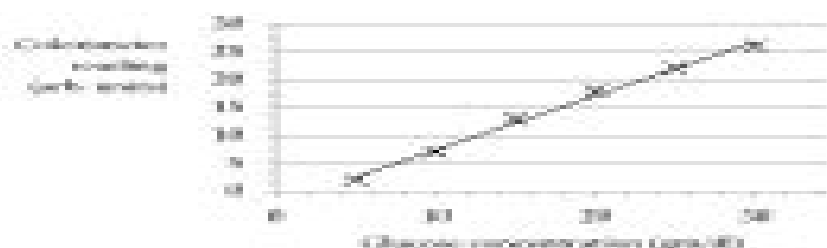


Answers

Please note that the rest of the carbohydrates topic is covered in Topic Test 'Carbohydrates (B)', which is available in the full pack of tests.

3.1.2 Carbohydrates (B)

1. Iodine (or) potassium iodide (1)
2.
 - a) Benedict's solution (1)
 - b) Amylase (1)
 - c) Amylase (1) and maltase (1)
 - d) Amylase only (hydrolysed / broken down starch into maltose) or (i) maltase is a reducing sugar causing the solution to change from blue to yellow (1)
Maltase hydrolysed / broken down starch and maltose into glucose (or (ii) (1)
Darker/red colour in (ii) because even more monosaccharides/glucose (1)
 - e) Reducing sugars (1)
3.
 - a) Comparing colour by eye is semi-quantifiable (1)
 - b) Another method would be chromatography (1) with standard solutions of known monosaccharides (1) are compared to an unknown sample (1)
4.
 - a) Make dilution series of control glucose solutions with Benedict's solution (1) and use colorimeter to form calibration curve (1) then compare test sample and Benedict's solution with calibration curve (1)
 - b) [1 mark for axes, half mark for each plotted point, 1 mark for line of best fit.]



- c) [1 mark for correctly drawing lines on graph to estimate glucose value] Blood glucose levels between 22 and 23 g/dm³ therefore, patient is at risk of diabetes (1).

(25 marks)

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