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BIOLOGY

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Paper 6 Alternative to Practical

May/June 2022

1 hour

You must answer on the question paper.

No additional materials are needed.

1 Rice contains starch. Amylase is an enzyme that catalyses the breakdown of starch to form reducing sugars.

A student investigated the effect of amylase on cooked rice.

The student used this method:

- Step 1 Two small beakers were prepared; each beaker contained 20g of cooked white rice. One beaker was labelled W and one beaker was labelled A.
- Step 2 Both of the beakers were put into a 40 °C water-bath.
- Step 3 A measuring cylinder was used to add 20 cm³ of distilled water to the rice in beaker W.
- Step 4 The same measuring cylinder was then used to add 20 cm³ of a 1% amylase solution to the rice in beaker A.
- Step 5 The beakers were left in the water-bath for 10 minutes.
- Step 6 One test-tube was labelled W10 and a second test-tube was labelled A10.
- Step 7 After 10 minutes, a glass rod was used to stir the contents of beaker W.
- Step 8 A clean pipette was used to remove 2 cm³ of the liquid surrounding the rice in beaker W. The 2 cm³ of liquid was put into test-tube W10.
- Step 9 Steps 7 and 8 were repeated with booker A and test-tube A10.
- Step 10. A syringe was used to add 2 cm³ of Senedict's solution to each of test-tubes W10 and A10.
- Step 11 Test-tubes W10 and A10 were put into an 80°C water-bath for five minutes.
- Step 12 After five minutes, the colours of the contents of test-tubes W10 and A10 were observed.

The student's observations are shown in Fig. 1.1.



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