



Turn over ►

Table 2 shows the results.

Table 2

	Test	Description of liquid	Result of starch test	Result of sugar test				
	1	Mixture inside tubing at start		×				
2 W		Water in the test tube at start	Vater in the test tube at start ×					
	3	Mixture inside tubing after 30 minutes	s ✓ ✓					
	4	Water in the test tube after 30 minutes	×	~				
 Key ✓ = Present ✗ = Not present 0 2.3 Name the reagents used to test for starch and for sugar.								
	0 2 . 3 Name the reagents used to test for starch and for sugar. Starch							
		Sugar						
02	. 4		[1 mark]					
02	D 2 . 5 Explain the results for test 3.							



02.6	Explain the results for test 4 . [2 marks]	Do not write outside the box
	Turn over for the payt question	10
	Turn over for the next question	
	Turn over ►	



Question	Answers	Extra information	Mark	AO / Spec. Ref.
02.1	amylase	allow phonetic spelling allow carbohydrase ignore references to source of enzyme e.g. salivary / pancreatic do not accept amylose	1	AO1 4.2.2.1
02.2	(partially permeable tubing) small intestine	allow stomach ignore intestine unqualified do not accept large intestine	1	AO3 4.2.2.1
	(water in test tube) blood	allow plasma	1	
02.3	(Starch): lodine (solution)	allow phonetic spelling ignore iodide unqualified	1	AO1 4.2.2.1
	(Sugar): Benedict's (solution)		1	
02.4	enzyme had not started to work or none of the starch had been digested / broken down	allow idea of not enough time (for digestion)	1	AO2 4.2.2.1
02.5	(enzyme) digested / broke down starch to form sugar		1	AO2
	(however) not all the starch was digested / broken down		1	AO3 4.2.2.1
02.6	sugar molecules formed are small enough to pass through tubing		1	AO3 4.2.2.1
	(but) starch molecules too large (to pass through tubing)		1	AO2 4.2.2.1
Total			10	