

Theoretical report from practicals

Hydrolases (pancreatic amylase, pancreatic lipase)

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Date of practical:

Group:

Student 1:

Date of report:

Student 2:

Student 3:

Question 1

What are the enzymes that digest carbohydrates in the digestive tract? Which classes do these enzymes belong to? Give the place of their production, optimum pH of action and effect of effectors.

Question 2

Present the structure of the plant polysaccharide which is starch.

Question 3

We examined the course of starch digestion in the digestive tract by 2 methods. Describe them.

Question 4

Describe the reaction of polysaccharide with iodine.

Question 5

Describe the mechanism of carbohydrate absorption in the digestive tract.

Question 6

What are the name of the enzymes that digest lipids in the digestive tract. Which classes do these enzymes belong to? Give the place of their production, optimum pH of action and effect of effectors.

Question7

Digestion of lipids in the digestive tract is hormone regulated. Give the names of these hormones, place of production, mechanism of action.

Question 8

How have we experimentally confirmed the activity of lipid digesting enzymes?

Question 9

Describe the mechanism of digestion of triacylglycerols and the absorption of their digestive products in the small intestine..

Question 10

What role does bile play in digesting fats?