

Biology B5e-h Cheat Sheet

by boojiebaba via cheatography.com/25926/cs/7036/

Bile purpose

fat digestion?

What is the purpose of bile?

stomach to the small intestine.

in which the lipases can work.

To lower the pH of food as it moves from the

How does bile (from the gall bladder) improve

It emulsifies (breaks down) fats in the small intestine. This provides a larger surface area

Functions			
salivary glands	produce saliva that moistens food and contains carbohydrase enzymes		
stomach	produces hydrochloric acid and protease enzymes		
pancreas	produces carbohydrase, protease and lipase enzymes		
liver	produces bile		
gall bladder	stores bile		
small intestine	produces carbohydrase, protease and lipase enzymes, and absorbs digested food		
large intestine	absorbs water		

Enzymes			
enzyme	breaks down	into	in the
carbohyd rase	starch	sugar	mouth + small intestine
protease	protein	amino acids	stomach + small intestine
lipase	fat	fatty acids +	small intestine

glycerol
Stomach acid provides the correct pH for

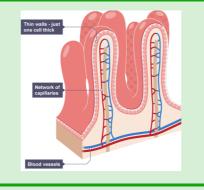
Breakdown of starch

stomach protease to function properly.

- 1. starch --> maltose
- 2. maltose --> glucose

Cosophagus Cosophagus Liver Call bladder Pancreas Small intestine Appendix Rectum Anus

Small intestine adaptations



- -it has a thin lining
- -it has a good blood supply
- -it is very long and has a large surface area
- -villi provide a large surface area for absorption to take place
- -villi have a rich supply of blood vessels to carry away absorbed molecules.

Physical vs Chemical Digestion

Physical digestion breaks food into smaller pieces by:

-chewing in the mouth

Positioning

- -squeezing in the stomach This is done so that:
- -food can pass more easily through the digestive system
- -a larger surface area is provided for enzymes to work on

Chemical digestion uses digestive enzymes to breakdown large food molecules into smaller ones so they can be absorbed into the blood. The products of chemical digestion are absorbed into the body in the small intestine: -sugars and amino acids pass into the

bloodstream by diffusion
-fatty acids and glycerol pass into the lymph

pH differences

Why is the pH in the mouth and small intestine alkaline, but the pH in the stomach is at acidic levels?

The enzymes there work at different optimum pH levels.

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Published 6th February, 2016. Last updated 6th February, 2016. Page 1 of 1. Sponsored by **Readability-Score.com**Measure your website readability!
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