

FACULTY OF ENGINEERING &TECHNOLOGY DEPARTMENT OF BIOTECHNOLOGY

Digestion in Small Intestine

Note:

- Main digestion takes place in the small intestine by pancreatic amylase
- ◆ Digestion is completed by pancreatic amylase because food stays for a longer time in the intestine.

What are Disaccharidases?

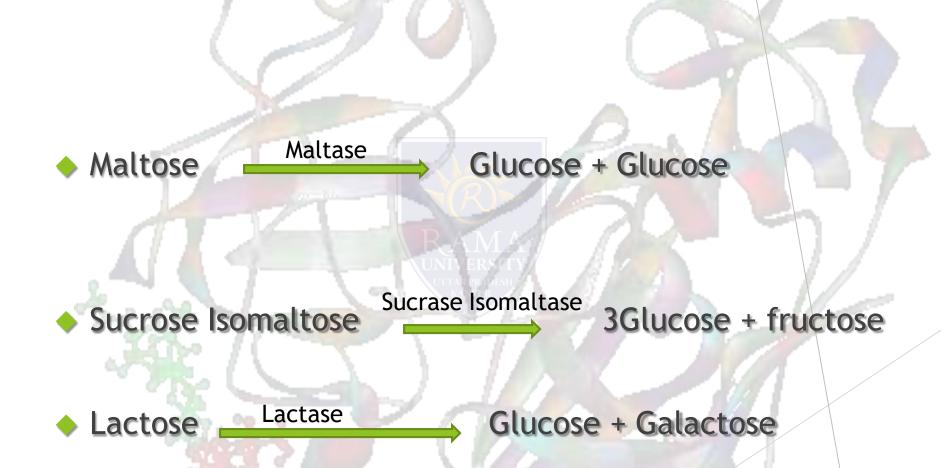


They are present in the brush border epithelium of intestinal mucosal cells where the resultant monosaccharides and others arising from the diet are absorbed.

RAMA

- The different disaccharidases are:
- 1) Maltase,
- 2) Sucrase-Isomaltase (a bifunctional enzyme catalyzing hydrolysis of sucrose and isomaltose)
- 3) Lactase

Reactions catalyzed by Disaccharidases



Clinical significance of Digestion

 <u>Lactose intolerance</u> is the inability to digest lactose due to the deficiency of Lactase enzyme.

Causes
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Congenital

Acquired during lifetime

Primary

Secondary