



NATURAL SOLUTIONS

Clinical Kinesiology, Acupuncture, & (w)Holistic Healthcare

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Enzyme Action Chart

AREA	FOOD CLASS	ENZYME ACTING	PRODUCT FORMED
Mouth	Starch	Ptyalin	Dextrins Mallose
Stomach	Proteins	Pepsin	Proteoses Peptones
	Casein	Rennin	Ca. Paracaseinate
	Pre-emulsified fats	Gastric Lipase	Glycerol Fatty Acids
Intestine	Proteins	Trypsin	Polypeptides
	Proteoses	Chymotrypsin	Peptones
	Peptones		
	Polypeptides	Erepsin	Amino Acids
	Dipeptides		
	Fats	Steapsin	Simple Glycerides Fatty Acids Glycerol
	Starch		
	Dextrins	Amylopsin	Mallose
	Mallose	Maltase	Glucose
	Sucrose	Sucrase	Glucose Fructose
Lactose	Lactase	Glucose Galactose	

Salivary Glands	Ptyalin
Stomach Glands	Pepsin and Hydrochloric Acid, Rennin (childhood only), Gastric Lipase
Liver	Bile
Pancreas	Trypsin, Chymotrypsin, Steapsin, Amylopsin, Maltase, Erepsin
Intestinal Mucosa	Sucrase and Lactase



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Main Enzymatic Processes in Digestion

SITE	SECRETION	ENZYME	SUBSTRATE	DEGREE OF DIGESTION	PRODUCTS OF DIGESTION
MOUTH	Saliva	Ptyalin	Starch	Slight	Dextrins, Maltose
		Maltase (?)	Maltose	Very Slight	Glucose
STOMACH	Gastric Juice	Pepsin	Protein	Incomplete	Proteoses Peptones
		Rennin	Casein	Generally Incomplete	Paracasein
		Lipase	Emulsified Fats	Very Slight	Glycerol, Fatty Acids
PANCREAS	Pancreatic Juice	Trypsin	Proteins	Nearly Complete	Polypeptides, Amino Acids
		Steapsin	Proteoses, Polypeptide, Fats		
		Amylopsin	Starch	Nearly Complete	Dextrins, Mallose
		Maltase	Maltose	Fairly Complete	Glucose
		Lactase	Lactose	Fairly Complete	Glucose Galactose
		Invertase (?)	Sucrose	Fairly Complete	Glucose Fructose
		Rennin	Casein	Complete	Paracasein
INTESTINE	Intestinal Juice and Intestinal Mucosa	Erepsin	Ordinary Peptides	Nearly Complete	Amino Acids
		Amylase	Starch	Nearly Complete	Dextrins, Maltose
		Rennin	Casein	Generally Complete	Paracasein
		Enterokinase	Activates Trypsin		
		Lipase	Fat	Nearly Complete	Fatty Acids
		Maltase	Maltose	Complete	Glucose
		Lactase	Lactose	Complete	Glucose Galactose
		Invertase	Sucrose	Usually Complete	Glucose Fructose
		Nucleinases	Nucleic Acids	Usually Complete	Mono-Nucleotides
		Nucleo-Tidases	Mono-Nucleotides	Usually Complete	Nucleosides Phosphoric Acid
Nucleo-Sidases (inmucosa)	Nucleosides	Usually Complete	Purine Bases, Carbohydrates		