

Digestion Of Food Through Elementary System

	Food Type	Enzyme	Substrate	Product	Process		
Mouth	Carbohydrate	Ptyalin/ Amylase	Boil Starch	Maltose	Boiled Starch → Disolved Starch → Erithrodextrin → Acrodextrin → Limit Dextrin → Maltotriose, Isomaltose . Maltose , Glucose		
	Protein	-	-	-	-		
	Fat	-	-	-	-		
Stomach	Carbohydrate	HCL	Sucrose	Glucose/ Fructose	Hydrolysis (Glycosidic bond breakage)		
	Protein	HCL (Gastric Juice) Pepsinogen → Pepsin	Protein	Peptone	Protein → Acid Metaprotein → Primary Proteose → Secondary Proteose → Peptone		
		Prorenin → Renin	Milk Protein	Peptone	Casinogen → Dissolve casinogen → Calcium caseinate		
	Fat	Gastric Lipase	Fat	Fatty Acid + Glycerol			
Intestine	Carbohydrate	Pancreatic Juice	Pancreatic Amylase	Starch	Maltose	Hydrolysis (Glycosidic bond breakage)	
		Intestinal Juice/ Succus entricus	Intestinal Amylase	Starch	Maltose	Hydrolysis (Glycosidic bond breakage)	
			Surcease	Sucrose	Glucose + Fructose	Hydrolysis (Glycosidic bond breakage)	
			Lactase	Lactose	Glucose + Galactose	Hydrolysis (Glycosidic bond breakage)	
			Maltase	Maltose	Glucose + Glucose	Hydrolysis (Glycosidic bond breakage)	
			Oligo -α1,6, Glucosidase	Isomaltose	Glucose	Hydrolysis (Glycosidic bond breakage)	
	Protein	Pancreatic Juice	Trypsin	Protein	Lower peptide	Protein → Alkaly Metaprotein → Primary Proteose → Secondary Proteose → Peptone	
			Elastage	Ellastin	Lower Peptide	Peptide bondbreak	
			Collaginase	Collagen	Lower Peptide	Peptide bondbreak	
			Carboxypeptidase	Lower peptide	Amino acid	Peptide bondbreak	
			Chimotrypsin	Milk protein	Calcium caseinate	Coagulation of milk protein	
		Intestinal Juice/ Succus entricus	Polynucleotidase	Nucleic Acid	Nucleotide		
			Nucleotidase	Nucleotide	Nucleoside + PO ₄		
			Nucleosidase	Nucleoside	Nitrogenous base+ Pentose Suger		
			Amino peptidase	Lower peptide	Amino acid		
			Erepain	Lower Peptide	Amino acid		
			Dipeptidase	Dipeptide, Tripeptide	Amino Acid		
		Fat	Pancreatic Juice	Pancreatic Lipase	Fat	Fatty Acid + Glycerol	Hydrolysis (Glycosidic bond breakage)
			Intestinal Juice	Intestinal Lipase	Fat	Fatty Acid + Glycerol	Hydrolysis (Glycosidic bond breakage)