

Polypeptides:

·all proteins are made of chains of amino acids called polypeptides

each polypeptide type has a unique combination of amino acids.

that unique combination of amino a cids are what give the protein its shape and gives the protein the ability to do its unique job in the cell.

·when we eat proteins, our bodies use tiny cellular machines called "digestive enzymes" to break down the polypeptide chains into amino acids.

our cells use amino acids to build our own cellular proteins.



Protein Problems

food allergies:

your body

sometimes our immune systems detect and attack Specific food proteins. doctors don't really know why

Food allergies Chives, stomact upset and in worst cases. anaphylaxis) are actually the effects your immune system has on

Common Food Allergies









Amino Acids

·There are 20 different kirds of amino acids that can be found in polypeptide chains.

· Each type of amino acid has a different "attachment" to the central part of the amino acid. The attachment is called an R group.

Essential dmino dcids

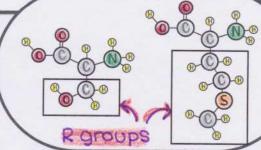
some amino acids cannot be built in human cells.

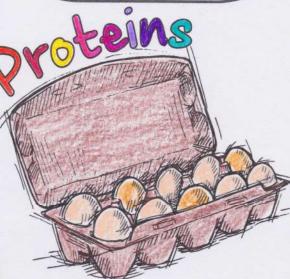
·humans must eat these amino acids.

·Plant proteins are "complete" meaning they have all the essential amino

acids · combinations that have all the essential amino acids in

necessary amounts: -cornard beans -soybeans and rice





IN OUR FOOD

Sources

·meat (Chicken. pork, beef)

·fish/seafood

dairy products and eggs beans, tofu grains - wheat, etc.

Nutrition Facts

Serving Size: 1 egg (50g) Servings Per Container: 12

Amount Per Serving

Calories 70

Calories from Fat 50	
Calories from Saturated Fat	t 15
% D	aily Value*
Total Fat 5g	6%
Saturated Fat 1.5g	8%
Trans Fat 0g	
Polyunsaturated Fat 3g	
Monounsaturated Fat 0.5g	
Cholesterol 185mg	62%
Sodium 70mg	3%
Potassium 69mg	2%
Total Carbohydrate 0g	0%
Dietary Fiber 0g	0%
Sugars 0g	

Other Carbohydrate 0g Protein 6a 12% Vitamin A 0% Vitamin C 0% Calcium 2%

Thiamin 0% Riboflavin 15%

Percent(%) Daily Value are based on a

