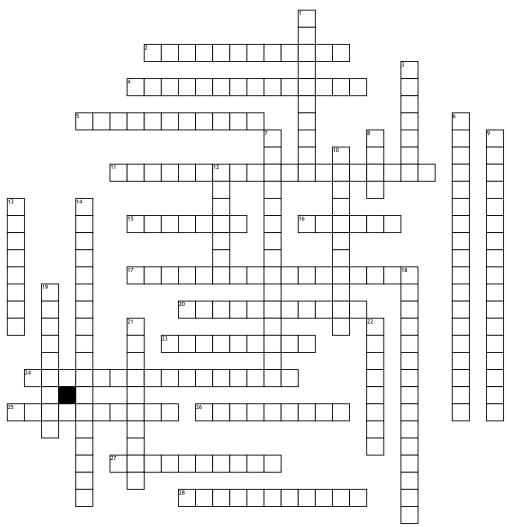
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## Proteins & Amino Acids



## Across

- 2. the process through which proteins lose their shape and function, often occurring due to an outside stimulant such as heat
- 4. proteins responsible for communication between cells; many hormones are in this catagory
- 5. chain of multiple amino acids bound together by peptide bonds
- 11. work closely with structural proteins; these allow for movement to occur and include actin and myosin

  15. chemical catalysts which promote and regulate almost
- all chemical reactions occurring on the cellular level
- **16.** network of elastic protein strands that give bread dough its structure
- 17. protect the body from various threats; include antioxidants
- 20. central carbon atom of an amino acid, covalently bonded to the amino and carboxyl groups
- 23. chemical reaction that adds oxygen to a compound 24. food that contains all the indispensable amino acids
- 25. the building blocks of proteins

- 26. chemical reaction that removes oxygen from a
- 27. bond formed between two amino acids when an amine group combines with a carboxyl group and a water molecule is released
- 28. water repelling

- 1. part of the amino acid acid structure that contains one nitrogen and two hydrogen atoms bonded to a carbon atom, represented by the symbol -NH2
- 3. protein found in egg whites and milk that act as a good foaming agent
- **6.** proteins which help to form and maintain the objects which form the structure of the body, including muscle tendons and ligaments
- 7. reaction between proteins and carbohydrates that causes food to brown when cooked
- 8. by-product of cheese production that looks like a watery milk and is mainly composed of a group of water-soluble proteins, lactose, and minerals
- 9. help to move items within the body; include hemoglobin

- 10. type of permanent denaturation that results when a liquid or semiliquid protein forms solid or semisoft clots  $% \left( 1\right) =\left( 1\right) \left( 1\right) \left($
- **12.** hydrophobic protein found in milk that are vital to forming the curds used in cheese making
- 13. large molecules required in the diet to help form muscle fibers as well as carry out numerous other vital functions in the body
- 14. protein that is lacking one or more of the indispensable amino acids needed for human growth
- 18. act as biological reserves of necessary items such as amino acids and metal ions
- **19.** iron-binding protein pigment in muscle tissue that provides color and holds oxygen in muscle tissue until it is needed
- 21. mixture of mostly fluids locked in a tangled three dimensional mesh made of denatured and coagulated proteins
- 22. protein in connective tissue that begins to soften and break down into gelatin when cooked in a moist heat

## **Word Bank**

**Enzymes** 

Albumin Denaturation Amine Group Reduction Whey Polypeptide Defensive proteins Caseins **Contractile Proteins** Structural Proteins Coagulation **Proteins** Gluten Signal proteins Oxidation Protein gel Complete proteins Myoglobin Peptid Bond Alpha carbon Amino acids Collagen Incomplete proteins Transport proteins Millard reaction Hydrophobic

Storage proteins