

Identifying Proteins and Amino Acids

Results and Discussion

Data Table. *Classification Tests for Proteins and Amino Acids*

Classification Test	Test Tube and Sample Identity						
	1	2	3	4	5	6	7
	Water	Albumin	Casein	Gelatin	Arginine	Cysteine	Tyrosine
Biuret Test							
Xanthoproteic Test							
Sakaguchi Test							
Nitroprusside Test							

Discussion Questions *(Use a separate sheet of paper to answer the following questions.)*

1. Which samples gave positive results and which gave negative results in the biuret test? Were there any differences in the color and intensity of the solutions that gave positive test results? How general is the biuret test for detecting proteins of different types?
2. Which amino acids are identified by means of the xanthoproteic test? Which protein samples gave positive xanthoproteic test results? Comment on the composition of the protein samples based on the results of this test.
3. Which amino acids are identified by means of the Sakaguchi test? Which protein samples gave positive Sakaguchi test results? Comment on the composition of the protein samples based on the results of this test.
4. Which amino acids are identified by means of the nitroprusside test? Which protein samples gave positive nitroprusside test results? Comment on the composition of the protein samples based on the results of this test.