

TABLE VI
DATA ON THE CONCENTRATION OF COMPONENTS OF HUMAN PLASMA PROTEINS
[Modified after Cohn (82, 83)]

Substance	Characteristic Properties	Assumed Functions	Estimated Amount		Electrophoretic Fraction in which Protein occurs
			gm. in 100 gm. plasma protein	gm. in 100 ml.* plasma	
Fibrinogen	Conversion into fibrin	Blood clotting	4	0.27	
Antihæmophilic globulin	Clots hæmophilic blood	Blood clotting	very little		
Non-clottable protein	Insoluble at low temperature		0.15	0.01	
Immune γ -globulin	Antibodies for diphtheria, measles, mumps, influenza, pertussis, streptococci antitoxin, typhoid-H-agglutinins	Immunological	11	0.74	γ -globulin
Immune euglobulins	Typhoid "O" agglutinins	Immunological	very little		β - and γ -globulins
Isoagglutinins	Anti-A, anti-B and anti-Rh antibodies	Immunological	(0.03)	(0.002)	β - and γ -globulins
Complement components	Lysis	Immunological	0.4	0.027	α - and β -globulins
Enzymes	Thrombin, proteolytic, amylolytic, lipolytic enzymes, phosphatase (alkaline), cholinesterase	Metabolic	0.02	0.001	α - and β -globulins
β -Pseudoglobulin, (crystallised)	Combining with Fe and Cu	Solubilisation and transport of specific substances	2.5	0.17	α - and β -globulins
Protein combining with iodine		Solubilisation and transport of specific substances	very little		α - and β -globulins
Glycoproteins	Containing carbohydrate (mucoproteins)		1.2	0.08	α - and β -globulins
Lipoproteins	Combined with steroids and carotenoids	Solubilisation and transport of specific substances	8	0.04	α - and β -globulins
Bilirubin-containing proteins			0.05	0.003	α -globulin
Albumin (crystallised)	Combines with fatty acids, bile salts, bile pigments, iodine, dyes and drugs	Solubilisation and transport of specific substances and osmotic regulation of blood volume	50	3.35	albumin

* Calculated for a total plasma protein of 6.7 gm. per 100 ml.

82. COHN, E. J., *Experientia*, **3**, 125-36 (1947)

83. COHN, E. J., *Smithsonian Inst. Pubs. Repts.*, 413-40 (1945)