

Electrophoretic zone-interzone	Pre Alb	Alb	α_1	α_2	β_1	β_2	γ											
	Prealbumin	Albumin + dugs	Albumin	α_1 - lipoproteins	α_1 - antichymotrypsin	orosomucoid	α_1 - antitrypsin	ceruloplasmin	α_2 - macroglobulins	Haptoglobins	Transferrin	C3c	β -lipoproteins	Hemopexin	γ - globulins	M - proteins	CRP	Muramidase
Caused by :																		
Acute phase reaction	-	-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Amyloidosis																M		
Age >70 years		-							-							-		
<12 years		-																
Allergic diseases	-	-							+	+						+		
Anemia											+							
Alcoholics	+		+															
Aspirin intake		+																
α_1- antitrypsin deficiency				-														
Bilirubin-hyperbilirubinemia	+		-							-								
B12-vit.and folic acid deficiency																		
Biliar:																		
a)Obstruction			-						+	+	+		+		+	+		
b)Cholestasis of pregnancy																		
Cardiac insuficiency		-	+						+	+								
a)myocardial infarction			+	+	+	+	+	+	+	+						+		
b)cardiac failure		-		+	+	+	+	+	+	+						+		

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Liver: a)Cirrhosis acute			-	-			+		-	-								
b)Cirrhosis chronic			-	-			+		-	+	+					+		
c)Hepatitis acute			-	-			+				+					+		
d)Hepatitis chronic			-	-			+		+	+						+		
e)Viral hepatitis			-	-			+						+	+		+		
f)Jaundice																		
g)Hepatosplenomegaly			-	-			+											
h)Injury																		
i)tumor																		
Leukemia (myelogenes)			-	-												+		+
Lipolysis																		
Lymphoid aplasia																		
Macroglobulinemia			-	-									+	+			+	
Malnutrition	-		-	-			-	-			+							
Myeloma			-	-							+		+				M	
α tubular									+				+	+			+	M
Pregnancy (contraceptive pills)	-		-	+		-		+	+		+							
Rheumatoid arthritis			-	-					-					-		+		

Electrophoretic zone-interzone	Pre Alb	Alb	α ₁	α ₂	β ₁	β ₂	γ						
	Prealbumin	Albumin + dugs	Albumin	α ₁ - lipoproteins	α ₁ - antichymotrypsin	α ₂ - macroglobulins	C3c	C3	Fibrinogen	γ - globulins	M - proteins	CRP	Muramidase
Renal disease: a)insufficiency				+									
b)glomerulonephritis				+									
c)acute nephritis										-			
d)membranoproliferative													
e)glomerulonephritis										-			
f)nephrotic syndrom		-			-	+	-			+	-		
Thyroid : a)hyperthyroidism					+								
b)hypothyroidism		-				+	+			+	+		
Thyroid Neoplasm		-				+							