

The duration of sample preservation before and after cell separation for measuring the most common chemistry values

Source: "Clinical Laboratory Diagnostics", A.A.Kishkun, 2012

Biochemical indicator	Whole blood		Plasma or serum	
	25°C	4-8°C	25°C	4-8°C
p-chorionic gonadotropin	2 hour	4 hour	24 hour	2 day
Uric acid	4 hour	4 hour	3 day	5 day
Albumen	3 day	7 day	7 day	30 day
Alanine Transaminase	2 hour	3 day	3 day	7 day
Amylase	4 hour	4 hour	7 day	30 day
Aspartic Transaminase	2 hour	3 day	3 day	7 day
Prostatic antigen	4 hour	4 hour	1 day	1 day
Common bilirubin and related	4 hour	4 hour	4 hour	7 day
Calcium	2 day	2 day	7 day	22 day
Chlorides	4 hour	4 hour	7 day	4 week
Cholesterol	48 hour	48 hour	7 day	7 day
Creatine Kinase	4 hour	4 hour	4 hour	5 day
Creatinine	4 hour	4 hour	7 day	30 day
Iron and iron-binding ability	4 hour	4 hour	4 hour	7 day
Ferritin	4 hour	4 hour	NO	7 day
Fructosamine	4 hour	4 hour	7 day	3 month
Follicle-stimulating hormone	4 hour	4 hour	7 day	7 day
Gamma-glutamyltranspeptidase	4 hour	4 hour	7 day	7 day
Glucose	2 hour	4 hour	8 hour	3 day
Glycosylated hemoglobin	4 hour	4-7 day		
High density lipoprotein cholesterol	3 hour	NO	NO	4 day
Lactate dehydrogenase	2 hour	NO	2 day	NO
Luteinizing hormone	4 hour	4 hour	14 day	14 day
Estradiol	2 hour	NO	NO	NO
Alkaline phosphatase	3 day	3 day	4 day	4 day
Inorganic phosphorus	4 hour	4 hour	3 day	7 day
Potassium	2 hour	NO	6 week	6 week
Total protein	4 hour	4 hour	4 hour	3 day
Sodium	2 day	2 day	4 day	7 day
Total triiodothyronine	2 day	2 day	1-2 week	1-2 week
Triiodothyronine free	2 day	2 day	1-2 week	2 week
Thyroxine is common and free	2 day	2 day	1-2 week	1-2 week
Transferrin	4 hour	7 day	8 hour	3 day
Triglycerides	4 hour	4 hour	3 day	7 day
Thyroxine binding globulin	4 hour	4 hour	4 day	4 day
Urea	4 hour	4 hour	1 day	5 day
Vitamin B12	4 hour	4 hour	4 hour	3 week