

The table below details the impacts of haemolysis, icterus and lipaemia on laboratory tests:

Analyte	Effect of haemolysis	Effect of icterus		Effect of lipaemia
		Conjugated	Unconjugated	
Orosomuroid	-	-	-	↑
α1-antitrypsin	-	-	-	↑
Acetaminophen (Paracetamol)	Dependent on level of paracetamol (contact laboratory for information)			
Albumin				
Alkaline Phosphatase	↓	↓	-	-
ALT	↓↑	↓	↓	↓
Amikacin	↑	-	-	-
Ammonia	↓↑	↑	↓	↓
Amylase	↓	-	-	↓
AST	↑	-	-	↓
Bicarbonate	-	-	-	-
Bilirubin (Total)	-	N/A	N/A	-
Calcium	-	-	-	-
Caeruloplasmin	-	-	-	↑
Chloride	-	-	-	-
Cholesterol	↑	↓	↓	-
Creatine Kinase	↑	-	-	-
Creatinine	↓	↓	↓	↓
CRP	-	-	-	-
Gentamicin	-	-	-	↓
GGT	↓	-	↓	-
Glucose	-	-	-	↑
HDL	-	↓	-	-
Iron	↑	-	-	↓
Lactate	-	↓	-	-
LDH	↑	-	-	-
Direct LDL	-	-	-	↓
Magnesium	↑	-	-	-
Phenobarbital	-	-	-	-
Phenytoin	-	-	-	↓
Phosphate	↑	↑	-	↑
Potassium	↑	-	-	-
Salicylate	-	-	-	↓
Sodium	-	-	-	-
Theophylline	-	-	-	↓
Tobramycin	-	-	-	-
Total Protein	-	↓	↓	-
Triglycerides	↑	↓	↑	N/A
UIBC	↑	↓	-	↓
Urea	-	-	-	↓

Uric Acid	-	↓	↓	-
Valproate	-	-	-	↓
Vancomycin	-	-	-	↓

Data taken from the Roche global package inserts and application report, July 2013. Table shows the impacts of haemolysis, icterus and lipaemia on laboratory tests on the Roche c501, c311 and c502 analysers. (Serum/plasma samples only). ↓ under-recovery, ↑ over-recovery, ↓↑ variable recovery, - no significant impact.