

Reagents on cobas® c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾				
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bili. Interference	Unconj. Bili. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid®				
												~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity				
A1C-2	Tina-quant Hemoglobin A1c Gen.2 Whole Blood Application				X ³⁰⁾	X ³⁰⁾	X ³⁰⁾		↔	↔	n.a.	↓	800 / 500 ³²⁾	n.a.	60	60	n.a.	1026	1026	n.a.	400 / 500 ³²⁾	
A1C-2	Tina-quant Hemoglobin A1c Gen.2 Hemolysate Application				X ³⁰⁾	X ³⁰⁾	X ³⁰⁾		↔	↔	n.a.	↓	800 / 500 ³²⁾	n.a.	60	60	n.a.	1026	1026	n.a.	400 / 500 ³²⁾	
A1C-3	Tina-quant Hemoglobin A1c Gen.3 - Whole Blood Application				X ³¹⁾	X ³¹⁾	X ³¹⁾		↔	↓	n.a.	↑↓	600	n.a.	60	60	n.a.	1026	1026	n.a.	600	
A1C-3	Tina-quant Hemoglobin A1c Gen.3 - Hemolysate Application				X ³¹⁾	X ³¹⁾	X ³¹⁾		↔	↓	n.a.	↑↓	600	n.a.	60	60	n.a.	1026	1026	n.a.	600	
AAGP2	α1-Acid Glycoprotein Gen.2				X	X	X		↔	↔	↔	↑	650	1000	60	60	60	1000	1026	1026	621	650
AAT2	α1-Antitrypsin ver.2				X	X	X		↔	↔	↔	↑	350	1000	60	60	60	1000	1026	1026	621	350
ACETA	Acetaminophen 5µg/mL				X	X ¹²⁾	X		↑	↑	↑	↑	100	10	1	<1	<1	<10	<17	<17	<6.2	<100
	Acetaminophen 30µg/mL				X	X ¹²⁾	X		↑	↔	↑	↔	2000	250	14	14	no	250	239	no	155	2000
	Acetaminophen 50µg/mL				X	X ¹²⁾	X		↔	↔	↔	↔	1200	150	25	25	no	150	427	no	93	1200
ACET2	Acetaminophen Gen. 2 5µg/mL				X ²⁴⁾	X ²³⁾	X ²³⁾		↔	↔	↔	↓	400	800	30	30	30	800	510	510	496	400
ACP2	Acid Phosphatase Gen. 2				X				↓	↓	↑↓	↔	200	200	1	1	1	200	17	17	124	200
ALB2	Albumin BCG Gen.2				X	X	X		↔	↔	↔	↓	550	1000	60	60	60	1000	1026	1026	621	550
ALBP	Albumin BCP				X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↔	↓	1000	1000	60	60	60	1000	1026	1026	621	1000
ALBS2	Albumin (Turbidimetric)				X	X	X ⁴⁾		↔	↔	↔	↔	1500	1000	60	60	60	1000	1026	1026	no	1500
ALP2S ALP2L	ALP IFCC Gen.2				X	X			↓	↔	↓	↔	2000	200	60	60	200	200	1026	1026	124	2000
ALTL	Alanine Aminotransferase				X	X	X ⁴⁾		↓	↓	↑↓	↓	150	90	60	60	60	90	1026	1026	56	150
ALTLP	Alanine Aminotransferase Pyridoxal Phosphate Activated				X	X	X ⁴⁾		↓	↓	↑↓	↓	150	170	60	60	60	170	1026	1026	106	150

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾	
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bili. Interference	Unconj. Bili. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]	
AMIK2	Amikacin	X	X	X		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
AMYL2 SAMY2	α-Amylase EPS ver.2	X	X			↔	↔	↓	↓	1500	500	60	60	60	500	1026	1026	311	1500
AMY-P	α-Amylase EPS Pancreatic	X	X			↔	↔	↓	↓	1500	200	60	60	60	200	1026	1026	124	1500
AMPS2	ONLINE DAT Amphetamines II (application only available for c501/c502)	X	X ²³⁾	X ²³⁾		n.a.	n.a.	n.a.	n.a.	100	1000	60	60	60	1000	1026	1026	622	100
APOAT	Apolipoprotein A-1 ver.2	X	X	X		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
APOBT	Apolipoprotein B ver.2	X	X	X		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
ASLOT	Antistreptolysin O	X	X ⁸⁾	X ⁸⁾		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
ASTL SASTL	Aspartate Aminotransferase	X	X	X ⁴⁾		↔	↔	↑ ²⁾	↓	150	40	60	60	60	40	1026	1026	25	150
ASTLP	Aspartate Aminotransferase Pyridoxal Phosphate Activated	X	X	X ⁴⁾		↔	↔	↑ ²⁾	↓	150	20	60	60	60	20	1026	1026	12	150
AT	Antithrombin				X	↔	↔	↔	↔	1250	1000	60	60	60	1000	1026	1026	621	1250
B2MG	Tina-quant B2-Microglobulin	X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
BARB	ONLINE DAT Barbiturates Plus (application only available for c501/c502)	X	X ²³⁾	X ²³⁾		n.a.	n.a.	n.a.	n.a.	1000	1000	60	60	60	1000	1026	1026	622	1000
BNZ2	ONLINE DAT Benzodiazepines II (application only available for c501/c502)	X	X ²³⁾	X ²³⁾		n.a.	n.a.	n.a.	n.a.	2000	1000	60	60	60	1000	1026	1026	622	2000
BIL-D	Bilirubin Direct (ACN 293)	X	X			n/a	n/a	↓	↑	35	25	0	n/a	n/a	25	n/a	n/a	16	35
D-BIL	Bilirubin Direct (Multi - ACN 103)	X				n/a	n/a	↓	↔	100	10	0	n/a	n/a	10	n/a	n/a	6	100
BIL-D	Bilirubin Direct Gen. 2	X	X	X		n/a	n/a	↓	↑	750	25	0	n/a	n/a	25	n/a	n/a	16	750

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾				
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Billi. Interference	Unconj. Billi. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]				
BILT3 SBIL3	Bilirubin Total Gen. 3				X	X ¹²⁾	X ¹⁸⁾		n/a	n/a	↔	↔	1000	800	0	n/a	n/a	800	n/a	n/a	497	1000
BILT3 SBIL3	Bilirubin Total Gen. 3 for Neonates				X	X ¹²⁾	X ¹⁸⁾		n/a	n/a	↔	↔	1000	1000	0	n/a	n/a	1000	n/a	n/a	621	1000
C3C-2	Complement C3c ver.2				X	X			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
C4-2	Complement C4 ver.2				X	X	X		↔	↔	↑	↔	1000	500	60	60	60	500	1026	1026	311	1000
CA2 S-CA2	Calcium Gen. 2				X ¹⁵⁾	X ¹²⁾			↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
CARB2	Carbamazepine				X	X	X		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
CARB3	Carbamazepine Gen. 3				X	X ²²⁾	X ²²⁾		↑	↔	↔	↔	1000	1000	8 / 60 ²¹⁾	8	60	1000	137	1026	621	1000
CARB4	Carbamazepine Gen. 4				X	X ²²⁾	X ²²⁾		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
CERU	Ceruloplasmin				X	X			↔	↔	↔	↑	200	1000	60	60	60	1000	1026	1026	621	200
CHE	Cholinesterase (Appl. CHE)				X			X ²⁹⁾	↔	↔	↑	↔	1000	significant interference	60	60	60	significant interference	1026	1026	significant interference	1000
CHE2	Cholinesterase Gen.2 (Appl. CHE2)				X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↑	↔	1000	700	60	60	60	700	1026	1026	435	1000
CHED2	Inhibited Cholinesterase/Dibucaine Gen.2 (Appl. CHED2)				X	X ¹⁹⁾	X ¹⁹⁾		↓	↓	↑	↑	500	200	40	60	40	200	1026	684	124	500
CHET2	Total Cholinesterase/Dibucaine Gen.2 (Appl. CHET2)				X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↑	↔	1000	700	60	60	60	700	1026	1026	435	1000
Cl	Chloride Gen. 2				X	X ¹²⁾			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
CHO2I CHO2A	Cholesterol Gen.2				X	X	X ¹⁾		↓	↓	↑	↔	2000	700	14	16	14	700	274	239	435	2000
CKL	Creatine Kinase (ACN: CKL)				X	X			↔	↔	↑	↔	1000	200	60	60	60	200	1026	1026	124	1000

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾				
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bili. Interference	Unconj. Bili. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]				
CK	Creatine Kinase (ACN: CK2)				X ²⁶⁾	X ²³⁾	X ²³⁾		↓	↓	↑	↓	1000	100	60	60	60	100	1026	1026	62.1	1000
CKMBL	Creatine Kinase-MB				X	X			↑	↑	↑	↔	100	10	20	40	20	10	684	342	6	100
CKMBL	Creatine Kinase-MB 2				X ²⁶⁾	X ^{23/27)}	X ²³⁾		↔	↓	↑	↓	500	20	20	60	20	20	1026	60	12.4	500
CO2-L SCO2L	Bicarbonate liquid				X	X			↔	↔	↔	↔	1800	600	60	60	60	600	1026	1026	373	1800
COC2	ONLINE DAT Cocaine II (application only available for c501/c502)				X	X ²³⁾	X ²³⁾		n.a.	n.a.	n.a.	n.a.	2000	1000	60	60	60	1000	1026	1026	622	2000
SCRE2	Creatinine Jaffe, Gen.2 STAT				X	X	X		↓	↑	↔	↓↑	800	1000	2	2	3	1000	34	51	621	800
CREJ2	Creatinine Jaffe, Gen.2				X	X	X		↓	↑	↔	↓↑	800	1000	5	5	10	1000	86	171	621	800
CREP2	Creatinine plus ver.2				X	X	X		↓	↓	↓	↓	2000	800	15	15	20	800	257	342	497	2000
CRPHS	C-Reactive Protein High Sensitive				X	X	X ⁴⁾		↔	↔	↔	↑	600	1000	60	60	60	1000	1026	1026	621	600
CRPLX	C-Reactive Protein				X	X	X ⁴⁾		↔	↔	↓	↑	400	500	60	60	60	500	1026	1026	311	400
CRPL3	C-Reactive Protein				X	X	X		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
CYSC2	Tina-quant Cystatin C Gen. 2				X	X ²³⁾	X ²³⁾		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
D-DI2	D-Dimer Gen. 2					X ¹⁷⁾	X ¹⁷⁾		↔	↔	↔	↓	1000	500	60 ¹⁶⁾	60	30	500	1026	513	310	1000
DIG	Digoxin				X	X	X ⁴⁾		↔	↔	↔	↔	850	1000	60	60	60	1000	1026	1026	621	850
ETOH2 SETH2	Ethanol Gen.2				X	X	X ⁴⁾		↓	↔	↓	↓	500	200	30	30	60	200	513	1026	124	500
FERR4	Ferritin Gen.4				X	X ²³⁾	X ²³⁾		↔	↔	↑	↓	1000	500	60	60	60	500	1026	1026	310	1000
FRA	Fructosamine				X	X	X ⁴⁾		↑	↑	↑↓	↔	1800	100	5	5	5	100	86	86	62	1800
GENT2	Gentamicin				X	X	X	X	↔	↔	↔	↓	150	1000	50	50	50	1000	855	855	621	150

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bill. Interference	Unconj. Bill. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]
GGT2 GGTS2	X	X	X ⁽⁴⁾		↔	↓	↓	↔	1500	200	20	50	20	200	855	342	124	1500
GLDH3	X	X ⁽¹²⁾	X ⁽⁴⁾		↔	↓	↓	↓	100	50	60	60	60	50	1026	1026	31	100
GLUC2 SGLU2	X	X	X ⁽⁴⁾	X	↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
GLUC3 SGLU3	X	X	X	X	↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
HAPT2	X	X	X		↑	↔	↓	↑	200	10	60	60	60	10	1026	1026	6	200
HBDH2	X	X	X ⁽⁴⁾		↔	↔	↑	↓	600	10	60	60	60	10	1026	1026	6	600
HDLC3	X	X	X ⁽⁴⁾		↓	↔	↔	↔	1800	1200	30	30	60	1200	513	1026	745	1800
HDLC4	X	X ⁽²³⁾	X ⁽²³⁾		↓	↔	↔	↑	2000	1200	60	60	60	1200	1026	1026	745	2000
HCYS	X	X ⁽²³⁾	X ⁽²³⁾		↔	↓	↔	↓	250	100	20	20	20	100	342	342	62	250
IGA-2 IGAP2	X	X	X		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGG-2	X	X	X		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾					
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bill. Interference	Unconj. Bill. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]					
IGGC2	Immunoglobulin G						X	↑	↑↓	↑	n/a	0	0	0	15	15	200	257	257	124	n/a		
IGM-2	Immunoglobulin M				X	X	X		↔	↑	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGMP2	Immunoglobulin M				X	X	X ³⁾		↔	↔	↔	↔	↔	1700	1000	60	60	60	1000	1026	1026	621	1700
IRON2	Iron Gen.2				X	X			↔	↑	↑	↓	↓	1500	200	60	60	60	200	1026	1026	124	1500
K	Potassium				X	X ¹²⁾			↔	↔	↑	↔	↔	2000	90	60	60	60	90	1026	1026	54	2000
KAPP2	Tina-quant Kappa Gen. 2				X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↔	↑	↑	2000	1000	60	60	60	1000	1026	1026	621	2000
LACT2 SLAC2	Lactate Gen.2							X	↓	↔	↔	↔	↔	1500	1000	28	28	60	1000	479	1026	621	1500
LAMB2	Tina-quant Lambda Gen. 2				X	X ¹⁹⁾	X ¹⁹⁾		↔	↔	↔	↑	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
LDHI2 LDIP2	Lactate Dehydrogenase acc. IFCC ver.2				X	X			↔	↔	↑	↓	↓		15	60	60	60	15	1026	1026	9	900
LDHL	Lactate Dehydrogenase (P-L)				X	X			↔	↔	↑	↓	↓	900	15	60	60	60	15	1026	1026	9	900
LDL-C	LDL-Cholesterol plus 2nd generation				X	X			↔	↔	↔	↓	↓	200	1000	60	60	60	1000	1026	1026	621	200
LDL-C	LDL-Cholesterol plus 3rd generation				X	X ²³⁾	X ²³⁾		↓	↔	↔	↓	↓	1000	1000	60	60	60	1000	1026	1026	621	1000
LI	Lithium				X	X	X ⁴⁾		↑	↑	↔	↔	↔	2000	1000	37	43	37	1000	735	633	621	2000
LIPC	Lipase colorimetric				X	X			↔	↓	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾					
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bill. Interference	Unconj. Bill. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]					
LPA2	Lipoprotein (a) (Latex) Gen. 2				X	X ²⁰⁾	X ²⁰⁾		↔	↔	↔	↔		2000	1000	60	60	60	1000	1026	1026	621	2000
MG	Magnesium				X	X ¹²⁾			↔	↔	↑	↑		1700	1000	60	60	60	1000	1026	1026	621	1700
MG2	Magnesium Gen. 2				X	X ¹²⁾			↔	↔	↑	↔		2000	800	60	60	60	800	1026	1026	496	2000
MDN2	ONLINE DAT Methadone II (application only available for c501/c502)				X	X ²³⁾	X ²³⁾		n.a.	n.a.	n.a.	n.a.		100	1000	60	60	60	1000	1026	1026	622	100
MYO2	Myoglobin Gen.2				X	X	X ⁴⁾		↔	↔	↓	↔		2000	400	60	60	60	400	1026	1026	248	2000
Na	Sodium Gen. 2				X	X ¹²⁾			↔	↔	↔	↔		2000	1000	60	60	60	1000	1026	1026	621	2000
NAPA	N-Acetylprocainamid				X	X	X		↔	↔	↔	↔		500	800	30	30	30	800	513	513	497	500
NH3L	Ammonia						X ⁴⁾		↑	↓	↑↓	↓		50	200	10	10	30	200	171	513	124	50 ³⁾
PHNO2	Phenobarbital				X	X	X		↔	↔	↔	↔		600	1000	60	60	60	1000	1026	1026	621	600
PHNY2	Phenytoin				X	X	X		↔	↔	↔	↓		800	1000	50	50	50	1000	855	855	621	800
PHOS2	Phosphate (Inorganic) ver.2				X	X	X ³⁾		↑	↔	↑	↑		1250	300	40	40	60	300	684	1026	186	1250
PREA	Prealbumin				X				↔	↔	↔	↑		100	1000	60	60	60	1000	1026	1026	621	100
PROC2	Procainamide				X	X	X	X	↔	↔	¹³⁾	↔		500	800	30	30	30	800	513	513	497	500
QUIN2	Quinidine				X	X	X		↔	↔	↔	↓		1000	1000	50	50	50	1000	855	855	621	1000

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾	
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bili. Interference	Unconj. Bili. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]	
RF-II	Rheumatoid Factors II	X	X	X ⁽⁴⁾		↓	↔	↓	↔	2000	300	40	40	60	300	684	1026	186	2000
SALI ¹¹	Salicylate 20µg/mL	X	X ⁽¹²⁾	X ⁽⁴⁾		↔	↔	↑	n.a.	n.a.	800	23	23	23	800	393	393	497	n/a
	Salicylate 40µg/mL	X	X ⁽¹²⁾	X ⁽⁴⁾		n.a.	n.a.	n.a.	↓	200	n.a.	n.a.	n/a	n/a	n/a	n/a	n/a	n/a	200
	Salicylate 200µg/mL	X	X ⁽¹²⁾	X ⁽⁴⁾		↔	↔	↔	↓	800	1000	23	23	23	1000	393	393	621	800
	Salicylate 300µg/mL	X	X ⁽¹²⁾	X ⁽⁴⁾		↔	↔	↔	↓	1000	1000	23	23	23	1000	393	393	621	1000
STFR	Soluble Transferrin Receptor	X	X	X ⁽¹⁰⁾		↔	↔	↓	↔	1000	800	60	60	60	800	1026	1026	497	1000
THC2	ONLINE DAT Cannabinoids II (application only available for c501/c502)	X	X ⁽²³⁾	X ⁽²³⁾		n.a.	n.a.	n.a.	n.a.	900	1000	60	60	60	1000	1026	1026	622	900
THEO2	Theophylline	X	X	X		↔	↔	↔	↓	300	1000	50	50	50	1000	855	855	621	300
TMPA	Mycophenolic Acid	X		X ⁽²⁸⁾		↑	↑	↔	↑	93	1000	17	66	17	93	1129	291	621	93
TOBR2	Tobramycin	X	X	X	X	↔	↔	↔	↔	750	800	30	30	30	800	513	513	497	750
TP2 S-TP2	Total Protein	X	X	X		↓	↓	↑	↔	2000	500	20	20	20	500	342	342	311	2000
TRIGL	Triglycerides	X	X	X		↓	↑	↑	n/a	0	700	10	10	35	700	171	599	435	n/a
TRSF2	Transferrin ver.2	X	X			↔	↔	↔	↑	500	1000	60	60	60	1000	1026	1026	621	500
UA2	Uric Acid ver.2	X	X	X ⁽⁸⁾		↓	↓	↔	↔	1500	1000	40	40	40	1000	684	684	621	1500
UIBC	Unsaturated Iron-Binding Capacity	X	X ⁽⁸⁾			↓	↔	↑	↓	300	40	60	60	60	40	1026	1026	25	300
UREAL SUREA	Urea/BUN	X	X	X		↔	↔	↔	↓	1000	1000	60	60	60	1000	1026	1026	621	1000
VALP2	Valproic Acid	X	X	X		↔	↔	↔	↓	500	500	30	30	30	500	513	513	311	500
VANC2	Vancomycin	X		X	X	↔	↔	↔	↓	500	650	30	30	30	650	513	513	403.65	500

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Billi. Interference	Unconj. Billi. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]
VANC3 ONLINE DAT Vancomycin Gen. 3	X ²⁴⁾	X ²³⁾	X ²³⁾		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	622	1000

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction			Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾	
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Billi. Interference	Unconj. Billi. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]

n/a not applicable

1) Interferences were tested with the following substances added to samples:

Hemolysate up to 621 µmol/l (1000 mg/dL) hemoglobin

Bilirubin up to 1026 µmol/L (60 mg/dl)

Lipemia up to 20 g/l Intralipid[®] (2000 mg/dl). Lipemia has no units as it is a measure of turbidity.

Reference: Glick MR, Ryder KW, Jackson SA. Graphical Comparisons of Interferences in Clinical Chemistry Instrumentation. Clin Chem 1986;32:470–474.

2) Erythrocytes contain AST

3) Only K2-EDTA allowed, K3-EDTA is not allowed

4) Only K2-EDTA has been checked

5) Due to the fact that Intralipid contains NH₃, the study was performed with native lipemic samples

6) Neonates

7) Adults

8) Plasma values are lower than serum values -Please refer to the pack insert

9) Sodium EDTA

10) Only K3-EDTA allowed, K2-EDTA is not suitable

11) see PB2011/054 The serum index cutoff values in the application settings are based on the salicylate concentration of 300 µg/mL (2.17 mmol/L) and should be adjusted to the intended use of the assay as appropriate.

12) only Lithium Heparin-Plasma

13) ↔ for low concentration ; ↑ for high concentration

14) ↔ for unconjugated bilirubin low ; ↑ for unconjugated bilirubin high

Reagents on cobas[®] c 501 & c 311 & c 502

List of interferences¹⁾ based on serum indices for serum and plasma (not applicable for urine and CSF)

Please refer also to the latest Package Insert

Analyte	Sample Material				Direction				Instrument settings			Interference within specification up to (conventional units):			Interference within specification up to (SI units):			without units ¹⁾
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Billi. Interference	Unconj. Billi. Interference	Hemolysis Interference	Lipemia Interference	Index L	Index H	Index I	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Icteric Index as conj. Bilirubin	Icteric Index as unconj. Bilirubin	Hemolytic Index as Hb	Lipemic Index as Intralipid [®]

- 15) fresh serum collected in the fasting state is the preferred specimen
- 16) I-Index 60 for conjugated and 30 for unconjugated Bilirubin
- 17) Li-Heparin / K2-EDTA / K3-EDTA / Citrat- Plasma
- 18) K2-EDTA / K3-EDTA / the use of EDTA-plasma may lead to slightly lower values
- 19) Li-Heparin / K2-EDTA Plasma
- 20) Li-Heparin / K2-EDTA / K3-EDTA. With K3-EDTA tubes pay particular attention that the tubes are adequately filled.
- 21) I - Index 8 for conjugated Bilirubin and 60 for unconjugated Bilirubin
- 22) Sodium and Li-Heparin / K2-EDTA / K3-EDTA
- 23) Li-Heparin / K2-EDTA / K3-EDTA Plasma
- 24) Serum Tubes containing separating gel have not been verified for use.
- 25) Fluoride/Na2-EDTA, Na-Heparin and Fluoride/potassium oxalate
- 26) Non-hemolyzed Serum and also recommended by IFCC
- 27) Li-Heparin in the usual concentration does not interfere with the test, but IFCC warns against its use
- 28) K2- and K3-EDTA-Plasma
- 29) EDTA does not inhibit cholinesterase activity. Use of other anticoagulants is not recommended. Avoid hemolyzed Plasma.
- 30) Venous or capillary blood with anticoagulant. The only acceptable anticoagulants is Li-Heparin, K2-EDTA, K3-EDTA and potassium fluoride/Na2-EDTA

↑ over-recovery
 ↓ under-recovery
 ↓↑ variable recovery
 ↔ recovery within ±10% of initial concentration