

Reagents on cobas c 701 / c 702

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 ~mg/dl	Icteric Index as unconj. Bilirubin ~mg/dl	Hemolytic Index as Hb ~mg/dl	Icteric Index as conj. Bilirubin ~µmol/l	Icteric Index as unconj. Bilirubin ~µmol/l	Hemolytic Index as Hb ~µmol/l	Lipemic Index as Intralipid [®] Turbidity	
AAGP2	α1-Acid Glycoprotein Gen.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↔	650	1000	60	60	60	1000	1026	1026	621	650
AAT2	α1-Antitrypsin ver.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↓↑	500	1000	60	60	60	1000	1026	1026	621	500
ACETA	Acetaminophen 5µg/mL	X	X ⁴⁾	X		↑	↑	↑	↑	100	10	1	<1	<1	<10	<17	<17	<6.2	<100
	Acetaminophen 30µg/mL	X	X ⁴⁾	X		↑	↔	↑	↔	2000	250	14	14	14	250	239	239	155	2000
	Acetaminophen 50µg/mL	X	X ⁴⁾	X		↔	↔	↔	↔	1200	150	25	25	25	150	427	427	93	1200
ACP2 ACPX ACP-NP (NPP2)		X				↓	↓	↑	↔	200	200	1	1	1	200	17	17	124	200
ALB2	Albumin BCG	X	X	X		↔	↔	↔	↓	550	1000	60	60	60	1000	1026	1026	621	550
ALBP	Albumin BCP	X	X	X		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
ALBS2	Albumin Tina-quant Gen.2	X	X	X		↔	↔	↔	↔	1500	1000	60	60	60	1000	1026	1026	621	1500
ALP2	ALP IFCC	X	X			↓	↔	↓	↔	2000	200	60	60	60	200	1026	1026	124	2000
ALTL	Alanine Aminotransferase IFCC	X	X	X		↓	↔	↓↑	↔	150	90	60	60	60	90	1026	1026	56	150
ALTPM	Alanine Aminotransferase IFCC Pyridoxal Phosphate Activated	X	X	X		↓	↔	↓↑	↔	150	170	60	60	60	170	1026	1026	106	150
AMIK2	Amikacin	X	X	X		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
NH3L	Ammonia			X		↑	↓	↓	↓	50	200	10/30	10	30	200	171	513	124	50

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

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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 [®]	
AMYL2 SAMY2	α-Amylase total	X	X			↔	↔	↓	↔	1500	500	60	60	60	500	1026	1026	310	1500
AMY-P	α-Amylase Pancreatic	X	X			↔	↔	↓	↔	600	200	60	60	60	200	1026	1026	124	600
APOAT	Apolipoprotein A-1 ver.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
APOBT	Apolipoprotein B ver.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↓	1000	1000	60	60	60	1000	1026	1026	621	1000
ASLOT	Antistreptolysin O	X	X	X		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
ASTL SASTL	Aspartate Aminotransferase IFCC	X	X	X ²⁾		↔	↔	↑ ⁹⁾	↔	150	40	60	60	60	40	1026	1026	25,6	150
ASTPM	AST IFCC with pyridoxal phosphate	X	X	X ²⁾		↔	↔	↑ ⁹⁾	↔	150	20	60	60	60	20	1026	1026	12,8	150
AT	Antithrombin				X ¹⁶⁾	↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
CO2-L SCO2L	Bicarbonate Hico	X	X			↔	↔	↓	↔	1800	600	60	60	60	600	1026	1026	372,6	1800
BIL-D	Gen. 2	X	X	X		n/a	n/a	↓	↑	750	25	0	n/a	n/a	25	n/a	n/a	16	750
BILT3 SBIL3	Bilirubin Total Gen. 3	X	X ⁴⁾	X ¹⁰⁾		n/a	n/a	↔	↔	1000	800	n/a	n/a	n/a	800	n/a	n/a	497	1000
BILT3 SBIL3	Bilirubin Total Gen. 3 Neonates	X	X ⁴⁾	X ¹⁰⁾		n/a	n/a	↔	↔	1000	1000	n/a	n/a	n/a	1000	n/a	n/a	621	1000
C3C-2	Complement C3c ver.2	X	X ⁴⁾			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
C4-2	Complement C4 ver.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↑	↔	1000	500	60	60	60	500	1026	1026	311	1000
CA2 S-CA2	Calcium Gen. 2	X ⁸⁾	X ⁴⁾			↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
CARB2	Carbamazepine Gen. 2	X	X	X		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000

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CARB3	Carbamazepine Gen. 3	X	X ¹³⁾	X ¹³⁾		↑	↔	↔	↔	1000	1000	8 / 60 ⁺¹²⁾	8	60	1000	137	1026	621	1000
CARB4	Carbamazepine Gen. 4	X	X ¹³⁾	X ¹³⁾		↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
CERU	Ceruloplasmin	X	X ⁴⁾			↔	↔	↔	↑	200	1000	60	60	60	1000	1026	1026	621	200
CHET2	Cholinesterase Butyryl	X	X	X		↔	↔	↑	↔	1000	700	60	60	60	700	1026	1026	435	1000
CHED2/DIBU	Cholinesterase/Dibucaine	X	X	X		↔	↔	↑	↔	500	200	60/40	60	40	200	1026	684	124	500
CHO2I CHO2A	Cholesterol	X	X	X		↓	↓	↑	↔	2000	700	16/14	16	14	700	274	239	435	2000
CI	Chlorid Gen. 2	X	X ⁴⁾			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
CK	Creatine Kinase	X	X	X		↔	↔	↑	↔	1000	100	60	60	60	100	1026	1026	62	1000
CKMB	Creatine Kinase-MB	X	X	X		↑	↓↑	↑	↔	500	20	60/20	60	20	20	1026	342	12,4	500
CREJ2	Creatinine Jaffe	X	X	X		↓	↓↑	↔	↑	800	1000	5/10	5	10	1000	86	171	621	800
SCRE2	Creatinine Jaffe, STAT	X	X	X		↓	↓↑	↔	↑	800	1000	2/3 ¹⁴⁾	2	3	1000	34	51	621	800
CREA2	Creatinine PAP	X	X	X		↓	↓	↔	↔	2000	800	15/20	15	20	800	257	342	497	2000
CRPL3	C-Reactive Protein	X	X	X		↔	↔	↓	↔	1000	1000	60	60	60	1000	1026	1026	622	1000
CRPHS	C-Reactive Protein High Sensitive	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↔	600	1000	60	60	60	1000	1026	1026	622	600
CYSC2	Tina-quant Cystatin C Gen. 2	X	X ¹⁷⁾	X ¹⁷⁾		↔	↔	↔	↔	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

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DIG	Digoxin	X	X ⁴⁾	X ²⁾		↔	↔	↔	↔	850	1000	60	60	60	1000	1026	1026	621	850
ETOH2 SETH2	Ethanol Gen.2	X	X ¹⁵⁾	X ¹⁵⁾	X ¹⁸⁾	↓	↔	↓	↓	500	200	30	30	60	200	513	1026	124.2	500
FERR4	Ferritin Gen.4	X	X ¹⁷⁾	X ¹⁷⁾		↔	↔	↔	↓	1000	500	60	60	60	500	1026	1026	310	1000
FRA	Fructosamine	X	X	X		↑	↑	↓	↔	1800	100	4	4	4	100	68	68	62	1800
GENT2	Gentamicin	X	X ^{13/16/19)}	X ¹³⁾		↔	↔	↔	↔	150	1000	50	50	50	1000	855	855	621	150
GGT12 GGTS2	g-Glutamyltransferase ver.2	X	X	X		↔	↓	↓	↔	700	200	50/20	50	20	200	855	342	124	700
GLUC2 SGLH2	Glucose Hemolysate				X	↔	↔	n/a	↑	1000	n/a	60	60	60	n/a	1026	1026	n/a	1000
GLUC3 SGLU3	Glucose	X	X	X	X	↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	621	1000
GLDH3	Glutamate Dehydrogenase	X	X	X		↔	↓	↑	↓	40	50	60	60	60	50	1026	1026	31	40
HAPT2	Haptoglobin ver.2	X	X ¹⁵⁾	X ¹⁵⁾		↑	↔	↓	↔	600	10	60	60	60	10	1026	1026	6	600
HBDH2	HBDH	X	X	X		↔	↔	↑	↔	600	10	60	60	60	10	1026	1026	6.2	600
HCYS	Homocysteine Enzymatic Assay	X	X ¹⁷⁾	X ¹⁷⁾		↔	↓↑	↔	↓	250	100	20	20	20	100	342	342	62	250
HDL3	HDL-Cholesterol	X	X	X		↓	↔	↔	↔	1800	1200	30/60	30	60	1200	513	1026	745	1800
HDL4	HDL-Cholesterol Gen. 4	X	X ¹⁷⁾	X ¹⁷⁾		↓	↔	↔	↔	2000	1200	60	60	60	1200	1026	1026	745	2000

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IGA-2	Immunoglobulin A	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGAP2	Immunoglobulin A	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGG-2	Immunoglobulin G	X	X	X		↑	↓↑	↑	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGM-2	Immunoglobulin M	X	X	X		↔	↑	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
IGMP2	Immunoglobulin M	X	X ⁴⁾	X ⁴⁾		↔	↔	↔	↔	1700	1000	60	60	60	1000	1026	1026	621	1700
IRON2	Iron	X	X			↔	↔	↑	↔	1500	200	60	60	60	200	1026	1026	125	1500
K	Potassium Gen. 2	X	X ⁴⁾			↔	↔	↑	↔	2000	90	60	60	60	90	1026	1026	54	2000
KAPP2	Tina-quant Kappa Gen. 2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↑	2000	1000	60	60	60	1000	1026	1026	621	2000
LACT2 SLAC2	Lactate				X	↓	↔	↔	↔	1500	1000	28/60	28	60	1000	479	1026	621	1500
LAMB2	Tina-quant Lambda Gen. 2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
LDHI2 LDIP2	Lactate Dehydrogenase IFCC	X	X			↔	↔	↑	↓	1000	15	60	60	60	15	1026	1026	9.6	1000
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 ¹⁷⁾	X ¹⁷⁾		↓	↔	↔	↓	1000	1000	60	60	60	1000	1026	1026	621	1000
LIPC SLIPC	Lipase colorimetric	X	X			↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
LI	Lithium	X	X ²⁰⁾	X ²⁾		↑	↑	↔	↑	2000	1000	37	43	37	1000	735	633	621	2000
LPA2	Lipoprotein (a) (Latex) Gen. 2	X	X ¹¹⁾	X ¹¹⁾		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000

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MG2/S-MG2	Magnesium	X	X ⁴⁾			↔	↔	↑	↔	2000	800	60	60	60	800	1026	1026	496	2000
MYO2	Myoglobin Gen.2	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↔	2000	400	60	60	60	400	1026	1026	249	2000
Na	Sodium Gen. 2	X	X ⁴⁾			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
NAPA2	N-Acetyl-Procaïnamide	X	X	X		↔	↔	↔	↓	500	800	30	30	30	800	513	513	497	500
PHNY2	Phenytoin	X	X	X		↔	↔	↔	↓	800	1000	50	50	50	1000	855	855	621	800
PHNO2	Phenobarbital	X	X	X		↔	↔	↔	↔	600	1000	60	60	60	1000	1026	1026	621	600
PHOS2 SPHO2	Phosphate	X	X	X		↑	↔	↑	↑	800	300	40/60	40	60	300	684	1026	186	800
PREA	Prealbumin	X	X ¹⁵⁾	X ¹⁵⁾		↔	↔	↔	↑	100	1000	60	60	60	1000	1026	1026	621	100
PROC2	Procainamide	X	X	X		↔	↔	7)	↓	500	800	30	30	30	800	513	513	497	500
QUIN2	Quinidine	X	X	X		↔	↔	↔	↓	200	1000	50	50	50	1000	855	855	621	200
RF-II	Rheumatoid Factors II	X	X	X		↓	↔	↓	↔	2000	300	40/60	40	60	300	624	1026	186	2000
Salicylate ³	Salicylate 20µg/mL	X	X ⁴⁾	X ²⁾		↔	↔	↑	n.a.	n.a.	800	23	23	23	800	393	393	497	n/a
	Salicylate 40µg/mL	X	X ⁴⁾	X ²⁾		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 ⁴⁾	X ²⁾		↔	↔	↔	↓	800	1000	23	23	23	1000	393	393	621	800
	Salicylate 300µg/mL	X	X ⁴⁾	X ²⁾		↔	↔	↔	↓	1000	1000	23	23	23	1000	393	393	621	1000
THEO2	Theophylline	X	X	X		↔	↔	↔	↓	300	1000	50	50	50	1000	855	855	621	300

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TOBR2	Tobramycin	X	X	X		↔	↔	↔	↔	750	800	30	30	30	800	513	513	497	750
TP2 S-TP2	Total Protein	X	X	X		↓	↓	↔	↔	2000	1000	20	20	20	1000	342	342	622	2000
STFR	Soluble Transferrin Receptor	X	X ⁴⁾			↔	↔	↔	↔	1000	800	60	60	60	800	1026	1026	497	1000
TMPA	Mycophenolic Acid	X		X		↔	6)	↔	↔	93	1000	5)	5)	5)	1000	5)	5)	621	93
TRIGL	Triglycerides	X	X	X		↓	↑	↑	n/a	n/a	700	10/35	10	35	700	171	599	434	n/a
TRIGB	Triglycerides Glycerol Blanked	X	X	X		↓	↑	↑	n/a	n/a	400	60/50	60	50	400	1026	855	248	n/a
TRSF2	Transferrin	X	X			↔	↔	↔	↔	500	1000	60	60	60	1000	1026	1026	621	500
UA2	Uric Acid	X	X	X		↓	↓	↔	↔	1500	1000	40	40	40	1000	684	684	621	1500
UIBC	Unsaturated Iron-Binding Capacity	X	X			↓	↔	↑	↔	300	40	60	60	60	40	1026	1026	24.8	300
UREAL/U-BUN SUREA/SUBUN	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	404	500
VANC3	Vancomycin	X	X ¹⁷⁾	X ¹⁷⁾		↔	↔	↔	↔	1000	1000	60	60	60	1000	1026	1026	622	1000

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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 [®]

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.

↑ over-recovery

↓ under-recovery

↕ variable recovery

↔ recovery within ±10% of initial concentration

Reagents on cobas c 701 / c 702

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 [®]

2) Only K2-EDTA has been checked

3) 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.

4) Only Lithium Heparin-Plasma

5) 66mg/dL / 1129µmol/L for conjugated Bilirubin; 17 mg/dL / 291 µmol/L for unconjugiertes Bilirubin

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

7) ↔ for low concentration ; ↑ for high concentration

8) fresh serum collected in the fasting state is the preferred specimen

9) Erythrocytes contain AST

10) K2-EDTA / K3-EDTA / the use of EDTA-plasma may lead to slightly lower values

11) Li-Heparin / K2-EDTA / K3-EDTA. With K3-EDTA tubes pay particular attention that the tubes are adequately filled.

12) I - Index 8 for conjugated Bilirubin and 60 for unconjugated Bilirubin

13) Sodium and Li-Heparin / K2-EDTA / K3-EDTA

14) 2 for conjugated and 3 for unconjugated Bilirubin

15) Li-Heparin and K2-EDTA Plasma

16) Na-Citrate Plasma

↑ over-recovery

↓ under-recovery

↑↓ variable recovery

↔ recovery within ±10% of initial concentration

Reagents on cobas c 701 / c 702

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 [®]

17) Li-Heparin / K2-EDTA / K3-EDTA

18) NaF/Na2-EDTA and NaF/K-Oxalate

19) Ammonium Heparin Plasma

20) Na-Heparin plasma

↑ over-recovery

↓ under-recovery

↕ variable recovery

↔ recovery within ±10% of initial concentration