

## Reagents on cobas c 701 / c 702

List of interferences<sup>1)</sup> based on serum indices for serum and plasma (not applicable for urine)

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 <sup>1)</sup>	
	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®	
ACETA	Acetaminophen 5µg/mL	X	X <sup>4)</sup>	X		↑	↑	↑	↑	100	10	1	<1	<1	<10	<17	<17	<6.2	<100
	Acetaminophen 30µg/mL	X	X <sup>4)</sup>	X		↑	↔	↑	↔	2000	250	14	14	14	250	239	239	155	2000
	Acetaminophen 50µg/mL	X	X <sup>4)</sup>	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
AMYL2 SAMY2	α-Amylase total	X	X			↔	↔	↓	↔	1500	500	60	60	60	500	1026	1026	310	1500

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

Source: Roche global package inserts and application reports

Status: Nov 2016  
V. 17.0

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AMY-P	α-Amylase Pancreatic				X	X			↔	↔	↓	↔	600	200	60	60	60	200	1026	1026	124	600
ASLOT	Antistreptolysin O				X	X	X		↔	↔	↔	↑	1000	1000	60	60	60	1000	1026	1026	621	1000
ASTL SASTL	Aspartate Aminotransferase IFCC				X	X	X <sup>2)</sup>		↔	↔	↑ <sup>9)</sup>	↔	150	40	60	60	60	40	1026	1026	25,6	150
ASTPM	AST IFCC with pyridoxal phosphate				X	X	X <sup>2)</sup>		↔	↔	↑ <sup>9)</sup>	↔	150	20	60	60	60	20	1026	1026	12,8	150
CO2-L SCO2L	Bicarbonate Hico				X	X			↔	↔	↓	↔	1800	600	60	60	60	600	1026	1026	372,6	1800
BILDF	Bilirubin Direct Jendrassik Grof				X	X			n/a	n/a	↓	↔	35	25	n/a	n/a	n/a	25	n/a	n/a	15,6	35
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
BILT2 SBIL2	Bilirubin Total (DPD; Gen.2)				X	X	X		n/a	n/a	↓	↔	300	50	n/a	n/a	n/a	50	n/a	n/a	31	300
BILTS SBILS	Bilirubin Total (DPD; Gen.1)				X	X	X		n/a	n/a	↑	↔	90	500	n/a	n/a	n/a	500	n/a	n/a	310	90
BILT3 SBIL3	Bilirubin Total Gen. 3				X	X <sup>4)</sup>	X <sup>10)</sup>		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 <sup>4)</sup>	X <sup>10)</sup>		n/a	n/a	↔	↔	1000	1000	n/a	n/a	n/a	1000	n/a	n/a	621	1000
CA S-CA	Calcium				X <sup>8)</sup>	X <sup>4)</sup>			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
CA2 S-CA2	Calcium Gen. 2				X <sup>8)</sup>	X <sup>4)</sup>			↔	↔	↔	↔	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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<b>CARB3</b>	<b>Carbamazepine Gen. 3</b>				X	X <sup>13)</sup>	X <sup>13)</sup>		↑	↔	↔	↔	1000	1000	8 / 60 <sup>*12)</sup>	8	60	1000	137	1026	621	1000
<b>CHET2</b>	<b>Cholinesterase Butyryl</b>				X	X	X		↔	↔	↑	↔	1000	700	60	60	60	700	1026	1026	435	1000
<b>CHED2/DIBU</b>	<b>Cholinesterase/Dibucaine</b>				X	X	X		↔	↔	↑	↔	500	200	60/40	60	40	200	1026	684	124	500
<b>CHO2I CHO2A</b>	<b>Cholesterol</b>				X	X	X		↓	↓	↑	↔	2000	700	16/14	16	14	700	274	239	435	2000
<b>CI</b>	<b>Chlorid Gen. 2</b>				X	X <sup>4)</sup>			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
<b>CK</b>	<b>Creatine Kinase</b>				X	X	X		↔	↔	↑	↔	1000	100	60	60	60	100	1026	1026	62	1000
<b>CKMB</b>	<b>Creatine Kinase-MB</b>				X	X	X		↑	↓↑	↑	↔	500	20	60/20	60	20	20	1026	342	12,4	500
<b>CREJ2</b>	<b>Creatinine Jaffe</b>				X	X	X		↓	↓↑	↔	↑	800	1000	5/10	5	10	1000	86	171	621	800
<b>SCRE2</b>	<b>Creatinine Jaffe, STAT</b>				X	X	X		↓	↓↑	↔	↑	800	1000	2/3 <sup>14)</sup>	2	3	1000	34	51	621	800
<b>CREA2</b>	<b>Creatinine PAP</b>				X	X	X		↓	↓	↔	↔	2000	800	15/20	15	20	800	257	342	497	2000
<b>CRPL3</b>	<b>C-Reactive Protein</b>				X	X	X		↔	↔	↓	↔	1000	1000	60	60	60	1000	1026	1026	622	1000
<b>D-DI2</b>	<b>D-Dimer Gen. 2</b>					X <sup>17)</sup>	X <sup>17)</sup>		↔	↔	↔	↓	1000	500	60 <sup>16)</sup>	60	30	500	1026	513	310	1000
<b>DIGIT</b>	<b>Digitoxin</b>				X	X <sup>4)</sup>			↔	↔	↔	↔	1000	1000	45	45	45	1000	770	770	622	1000
<b>DIG</b>	<b>Digoxin</b>				X	X <sup>4)</sup>	X <sup>2)</sup>		↔	↔	↔	↔	850	1000	60	60	60	1000	1026	1026	621	850

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## Reagents on cobas c 701 / c 702

List of interferences<sup>1)</sup> based on serum indices for serum and plasma (not applicable for urine)

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FERR3	Ferritin	X	X	X		↔	↔	↑	↔	500	400	60	60	60	400	1026	1026	248	500
FRA	Fructosamine	X	X	X		↑	↑	↓	↔	1800	100	4	4	4	100	68	68	62	1800
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
HBDH2	HBDH	X	X	X		↔	↔	↑	↔	600	10	60	60	60	10	1026	1026	6.2	600
HDLC3	HDL-Cholesterol	X	X	X		↓	↔	↔	↔	1800	1200	30/60	30	60	1200	513	1026	745	1800
IGA-2	Immunoglobulin A	X	X	X		↔	↔	↔	↔	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
IRON2	Iron	X	X			↔	↔	↑	↔	1500	200	60	60	60	200	1026	1026	125	1500
K	Potassium Gen. 2	X	X <sup>4)</sup>			↔	↔	↑	↔	2000	90	60	60	60	90	1026	1026	54	2000
LACT2 SLAC2	Lactate				X	↓	↔	↔	↔	1500	1000	28/60	28	60	1000	479	1026	621	1500

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LDHI2 LDIP2	X	X			↔	↔	↑	↓	1000	15	60	60	60	15	1026	1026	9,6	1000
LDL_C	X	X			↓	↔	↔	↓	200	1000	60	60	60	1000	1026	1026	621	200
LIPC SLIPC	X	X			↔	↔	↔	↔	2000	1000	50	50	50	1000	855	855	621	2000
LPALX	X	X <sup>11)</sup>	X <sup>11)</sup>		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
LPA2	X	X <sup>11)</sup>	X <sup>11)</sup>		↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
MG2/S-MG2	X	X <sup>4)</sup>			↔	↔	↑	↔	2000	800	60	60	60	800	1026	1026	496	2000
MPA	X		X		↔	6)	↔	↔	93	1000	5)	5)	5)	1000	5)	5)	621	93
Na	X	X <sup>4)</sup>			↔	↔	↔	↔	2000	1000	60	60	60	1000	1026	1026	621	2000
NAPA2	X	X	X		↔	↔	↔	↓	500	800	30	30	30	800	513	513	497	500
PHNY2	X	X	X		↔	↔	↔	↓	800	1000	50	50	50	1000	855	855	621	800
PHNO2	X	X	X		↔	↔	↔	↔	600	1000	60	60	60	1000	1026	1026	621	600
PHOS2 SPHO2	X	X	X		↑	↔	↑	↑	800	300	40/60	40	60	300	684	1026	186	800
PROC2	X	X	X		↔	↔	7)	↓	500	800	30	30	30	800	513	513	497	500
QUIN2	X	X	X		↔	↔	↔	↓	200	1000	50	50	50	1000	855	855	621	200

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RF-II	Rheumatoid Factors II				↓	↔	↓	↔	2000	300	40/60	40	60	300	624	1026	186	2000
Salicylate <sup>3</sup>	Salicylate 20µg/mL				↔	↔	↔	↓	1000	1000	23	23	23	800	393	393	497	n/a
	Salicylate 40µg/mL				↔	↔	↔	↓	1000	1000	23	n/a	n/a	n/a	n/a	n/a	n/a	200
	Salicylate 200µg/mL				↔	↔	↔	↓	1000	1000	23	23	23	1000	393	393	621	800
	Salicylate 300µg/mL				↔	↔	↔	↓	1000	1000	23	23	23	1000	393	393	621	1000
THEO2	Theophylline				↔	↔	↔	↓	300	1000	50	50	50	1000	855	855	621	300
TOBR2	Tobramycin				↔	↔	↔	↔	750	800	30	30	30	800	513	513	497	750
TP2 S-TP2	Total Protein				↓	↓	↔	↔	2000	1000	20	20	20	1000	342	342	622	2000
TRIGL	Triglycerides				↓	↑	↑	n/a	n/a	700	10/35	10	35	700	171	599	434	n/a
TRIGB	Triglycerides Glycerol Blanked				↓	↑	↑	n/a	n/a	400	60/50	60	50	400	1026	855	248	n/a
TRSF2	Transferrin				↔	↔	↔	↔	500	1000	60	60	60	1000	1026	1026	621	500
UA2	Uric Acid				↓	↓	↔	↔	1500	1000	40	40	40	1000	684	684	621	1500
UIBC	Unsaturated Iron-Binding Capacity				↓	↔	↑	↔	300	40	60	60	60	40	1026	1026	24,8	300

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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

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.

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- 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

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