

Reagents on cobas® c 501 - c 311 - c 502 - c 503 - c 303

Effect of Serum Indices: Lipemia, Hemolysis & Icterus

Please also refer to the latest Instructions for Use

Analyte		Direction (valid only for serum/plasma)			
		Conj. Bilir. Interference	Unconj. Bilir. Interference	Hemolysis Interference	Lipemia Interference
A1C-3	Tina-quant Hemoglobin A1c Gen.3 - Whole Blood Application	↔	↓	n.a.	↑↓
A1C-3	Tina-quant Hemoglobin A1c Gen.3 - Hemolysate Application	↔	↓	n.a.	↑↓
AAGP2	α1-Acid Glycoprotein Gen.2	↔	↔	↔	↑
AAT2	α1-Antitrypsin ver.2	↔	↔	↔	↑
ACETA	Acetaminophen 5µg/mL	↑	↑	↑	↑
	Acetaminophen 30µg/mL	↑	↔	↑	↔
	Acetaminophen 50µg/mL	↔	↔	↔	↔
ACET2	Acetaminophen Gen. 2 5µg/mL	↔	↔	↔	↓
ACP2	Acid Phosphatase Gen. 2	↓	↓	↑↓	↔
ALB2	Albumin BCG Gen.2	↔	↔	↔	↓
ALBP	Albumin BCP	↔	↔	↔	↓
ALBS2	Albumin (Turbidimetric)	↔	↔	↔	↔
ALP2S ALP2L	ALP IFCC Gen.2	↓	↔	↓	↔
ALTL	Alanine Aminotransferase	↓	↓	↑↓	↓
ALTLP	Alanine Aminotransferase Pyridoxal Phosphate Activated	↓	↓	↑↓	↓
AMIK2	Amikacin	↔	↔	↔	↔
AMYL2 SAMY2	α-Amylase EPS ver.2	↔	↔	↓	↓
AMY-P	α-Amylase EPS Pancreatic	↔	↔	↓	↓
AMPS2	ONLINE DAT Amphetamines II (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
APOAT	Apolipoprotein A-1 ver.2	↔	↔	↔	↔
APOBT	Apolipoprotein B ver.2	↔	↔	↔	↔

↑ over-recovery

↓ under-recovery

↑↓ variable recovery

↔ recovery within ±10% of initial concentration

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ASLOT	Antistreptolysin O	↔	↔	↔	↑
ASTL SASTL	Aspartate Aminotransferase	↔	↔	↑ ²⁾	↓
ASTLP	Aspartate Aminotransferase Pyridoxal Phosphate Activated	↔	↔	↑ ²⁾	↓
AT	Antithrombin	↔	↔	↔	↔
B2MG	Tina-quant B2-Microglobulin	↔	↔	↔	↑
BARB	ONLINE DAT Barbiturates Plus (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
BNZ2	ONLINE DAT Benzodiazepines II (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
BIL-D	Bilirubin Direct (ACN 293)	n/a	n/a	↓	↑
D-BIL	Bilirubin Direct (Multi - ACN 103)	n/a	n/a	↓	↔
BIL-D	Bilirubin Direct Gen. 2	n/a	n/a	↓	↑
BILT3 SBIL3	Bilirubin Total Gen. 3	n/a	n/a	↔	↔
BILT3 SBIL3	Bilirubin Total Gen. 3 for Neonates	n/a	n/a	↔	↔
C3C-2	Complement C3c ver.2	↔	↔	↔	↔
C4-2	Complement C4 ver.2	↔	↔	↑	↔
CA2 S-CA2	Calcium Gen. 2	↔	↔	↔	↔
CARB2	Carbamazepine	↔	↔	↔	↔
CARB3	Carbamazepine Gen. 3	↑	↔	↔	↔
CARB4	Carbamazepine Gen. 4	↔	↔	↔	↔
CERU	Ceruloplasmin	↔	↔	↔	↑
CHE	Cholinesterase (Appl. CHE)	↔	↔	↑	↔
CHE2	Cholinesterase Gen.2 (Appl. CHE2)	↔	↔	↑	↔

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CHED2	Inhibited Cholinesterase/Dibucaine Gen.2 (Appl. CHED2)	↓	↓	↑	↑
CHET2	Total Cholinesterase/Dibucaine Gen.2 (Appl. CHET2)	↔	↔	↑	↔
Cl	Chloride Gen. 2	↔	↔	↔	↔
CHO21 CHO2A	Cholesterol Gen.2	↓	↓	↑	↔
CK	Creatine Kinase (ACN: CK2)	↓	↓	↑	↓
CKMBL	Creatine Kinase-MB 2	↔	↓	↑	↓
CO2-L SCO2L	Bicarbonate liquid	↔	↔	↔	↔
COC2	ONLINE DAT Cocaine II (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
SCRE2	Creatinine Jaffe, Gen.2 STAT	↓	↑	↔	↓↑
CREJ2	Creatinine Jaffe, Gen.2	↓	↑	↔	↓↑
CREP2	Creatinine plus ver.2	↓	↓	↓	↓
CRPHS	C-Reactive Protein High Sensitive	↔	↔	↔	↑
CRPLX	C-Reactive Protein	↔	↔	↓	↑
CRPL3	C-Reactive Protein	↔	↔	↔	↔
CRP4	Tina-quant C-Reactive Protein IV	↔	↔	↔	↔
CYSC2	Tina-quant Cystatin C Gen. 2	↔	↔	↔	↔
D-DI2	D-Dimer Gen. 2	↔	↔	↔	↓
DIG	Digoxin	↔	↔	↔	↔
ETOH2 SETH2	Ethanol Gen.2	↓	↔	↓	↓
FERR4	Ferritin Gen.4	↔	↔	↑	↓
FRA	Fructosamine	↑	↑	↑↓	↔
GENT2	Gentamicin	↔	↔	↔	↓

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		Conj. Bilir. Interference	Unconj. Bilir. Interference	Hemolysis Interference	Lipemia Interference
GGT12 GGTS2	g-Glutamyltransferase ver.2	↔	↓	↓	↔
GLDH3	GLDH Gen. 3	↔	↓	↓	↓
GLUC2 SGLU2	Glucose HK	↔	↔	↔	↑
GLUC3 SGLU3	Glucose HK Gen.3	↔	↔	↔	↑
HAPT2	Haptoglobin ver.2	↑	↔	↓	↑
HBDH2	HBDH Gen.2	↔	↔	↑	↓
HDLC3	HDL-Cholesterol plus 3rd generation	↓	↔	↔	↔
HDLC4	HDL-Cholesterol Gen. 4	↓	↔	↔	↑
HCYS	Homocysteine Enzymatic Assay	↔	↓	↔	↓
IGA-2 IGAP2	Immunoglobulin A	↔	↔	↔	↔
IGG-2	Immunoglobulin G	↔	↔	↔	↔
IGGC2	Immunoglobulin G	↑	↑↓	↑	n/a
IGM-2	Immunoglobulin M	↔	↑	↔	↔
IGMP2	Immunoglobulin M	↔	↔	↔	↔
IRON2	Iron Gen.2	↔	↑	↑	↓
K	Potassium	↔	↔	↑	↔
KAPP2	Tina-quant Kappa Gen. 2	↔	↔	↔	↑
LACT2 SLAC2	Lactate Gen.2	↓	↔	↔	↔
LAMB2	Tina-quant Lambda Gen. 2	↔	↔	↔	↑
LDHI2 LDIP2	Lactate Dehydrogenase acc. IFCC ver.2	↔	↔	↑	↓
LDHL	Lactate Dehydrogenase (P-L)	↔	↔	↑	↓
LDL-C	LDL-Cholesterol plus 3rd generation	↓	↔	↔	↓

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		Conj. Bilir. Interference	Unconj. Bilir. Interference	Hemolysis Interference	Lipemia Interference
LI	Lithium	↑	↑	↔	↔
LIP / S-LIP	Lipase colorimetric	↔	↔	↑↓	↔
LPA2	Lipoprotein (a) (Latex) Gen. 2	↔	↔	↔	↔
MG S-MG	Magnesium	↔	↔	↑	↑
MG2 S-MG2	Magnesium Gen. 2	↔	↔	↑	↔
MDN2	ONLINE DAT Methadone II (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
MYO2	Myoglobin Gen.2	↔	↔	↓	↔
Na	Sodium Gen. 2	↔	↔	↔	↔
NAPA	N-Acetylprocainamid	↔	↔	↔	↔
NH3L	Ammonia	↑	↓	↑↓	↓
NH3L2	Ammonia II	↔	↔	↑	↑
PHNO2	Phenobarbital	↔	↔	↔	↔
PHNY2	Phenytoin	↔	↔	↔	↓
PHOS2 SPHO2	Phosphate (Inorganic) ver.2	↑	↔	↑	↑
PREA	Prealbumin	↔	↔	↔	↑
PROC2	Procainamide	↔	↔	13)	↔
QUIN2	Quinidine	↔	↔	↔	↓
RF-II	Rheumatoid Factors II	↓	↔	↓	↔
SALI ¹⁾	Salicylate 20µg/mL	↔	↔	↑	n.a.
	Salicylate 40µg/mL	n.a.	n.a.	n.a.	↓
	Salicylate 200µg/mL	↔	↔	↔	↓
	Salicylate 300µg/mL	↔	↔	↔	↓

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		Conj. Bilir. Interference	Unconj. Bilir. Interference	Hemolysis Interference	Lipemia Interference
STFR	Soluble Transferrin Receptor	↔	↔	↓	↔
THC2	ONLINE DAT Cannabinoids II (application only available for c501/c502)	n.a.	n.a.	n.a.	n.a.
THEO2	Theophylline	↔	↔	↔	↓
TMPA	Mycophenolic Acid	↑	↑	↔	↑
TOBR2	Tobramycin	↔	↔	↔	↔
TP2 S-TP2	Total Protein	↓	↓	↑	↔
TRIGL	Triglycerides	↓	↑	↑	n/a
TRSF2	Transferrin ver.2	↔	↔	↔	↑
UA2	Uric Acid ver.2	↓	↓	↔	↔
UIBC	Unsaturated Iron-Binding Capacity	↓	↔	↑	↓
UREAL SUREA	Urea/BUN	↔	↔	↔	↓
VALP2	Valproic Acid	↔	↔	↔	↓
VANC2	Vancomycin	↔	↔	↔	↓
VANC3	ONLINE DAT Vancomycin Gen. 3	↔	↔	↔	↔

1) 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.

↑ over-recovery

↓ under-recovery

↓↑ variable recovery

↔ recovery within ±10% of initial concentration

Reagents on cobas® c 503 c 303

Effect of hemolysis & icterus

on urine & CSF

Please also refer to the latest Instructions for Use

Analyte	Direction (valid only for urine & csf)			
	Conj. Bil. Interference	Unconj. Bil. Interference	Hemolysis Interference	Urine or CSF
AMYL2U Amylase-T urine	↔	↔	↓	U
AMYP2U Amylase-P urine	↔	↔	↓	U
CA2U Calcium Gen2 urine	↔	↔	↔	U
CREJ2U Crea Jaffé urine (Cfas)	↔	↔	↔	U
CREP2U Crea PAP urine (Cfas)	↔	↔	↔	U
ETOH2U Ethanol urine	↔	↔	↔	U
GLUC3C Glucose HiCo CSF	↔	↔	↔	C
GLUC3U Glucose HiCo urine	↔	↔	↔	U
LACT2C Lactate CSF	↓	↓	↔	C
MG2U Magnesium Gen2 urine (Cfas)	↔	↔	↔	U
PHOS2U Phosphate urine (Cfas)	↔	↔	↔	U
ISE K-U Potassium urine	↔	↔	↑	U
TPC3 Total Protein CSF	↑		↑	C
TPC3X Total Protein CSF - USA	↑		↑	C
TPU3 Total Protein urine	↑	↔	↑	U

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↓ under-recovery

↕ variable recovery

↔ recovery within ±10% of initial concentration

Source: Roche application reports

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Effect of hemolysis & icterus on urine & CSF

Please also refer to the latest Instructions for Use

Analyte	Direction (valid only for urine & csf)			
	Conj. Bil. Interference	Unconj. Bil. Interference	Hemolysis Interference	Urine or CSF
TPU3X Total Protein urine - USA	↑	↔	↑	U
URELU Urea/BUN urine (Cfas)	↔	↔	↔	U
UBUNU Urea/BUN urine (Cfas)	↔	↔	↔	U
UA2U Uric Acid urine (Cfas)	↔	↔	↔	U
ALBT2U Albumin TQ urine	↑	↔	↑	U
ALBT2UX Albumin TQ urine - USA	↑	↔	↑	U
ALBT2C Albumin TQ CSF	↔	↔	↔	C
ALBT2CX Albumin TQ CSF - USA	↔	↔	↔	C
B2MGU β2 Microglobulin (urine)	↔	↔	↔	U
IGA-CR IgA CSF	↔	↔	↔	C
IGG2C IgG CSF	↑	↔	↑	C
IGG2U IgG urine	↔	↔	↔	U
IGM-CR IgM CSF	↔	↔	↔	C
TRSF2U Transferrin (urine)	↔	↔	↔	U

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↓ under-recovery

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Source: Roche application reports

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