

Reagents on COBAS INTEGRA® Systems

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

Please refer also to the latest Method Sheet

Analyte	Sample Material				Direction				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	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	
AAGP	α1-Acid Glycoprotein	X	X			↔	↔	↔	↔	no	no	no	no	no	no	no
AAGP2	α1-Acid Glycoprotein Gen.2	X	X	X		↔	↔	↔	↓	60	60	1000	1026	1026	621	700
AAT2	α1-Antitrypsin ver.2	X	X	X		↔	↔	↔	↑	no	no	no	no	no	no	1200
ACETA	Acetaminophen 5μg/mL	X	X			↓	↔	↑	↓	<1	12	10	<17	210	6.2	1000
	Acetaminophen 30μg/mL	X	X			↓	↔	↑	↓	9	no	200	154	no	124	1800
	Acetaminophen 50μg/mL	X	X			↓	↔	↑	↔	12	no	350	205	no	217	2000
ACPP	Acid/Prostatic Phosphatase	X				↓	↓	↑	↑	0.7	0.7	10	12	12	6	270
ALB2	Albumin Gen.2	X	X	X		↔	↔	↓	↔	no	no	420	no	no	261	no
ALBS	Albumin (Turbidimetric) Serum Application	X				↔	↔	↔	↔	no	no	no	no	no	no	no
ALBS2	Albumin (Tina Quant) Gen.2 Serum Application	X	X	X		↔	↔	↔	↔	60	60	1000	1026	1026	621	1000
ALP2	ALP IFCC Gen.2	X	X			↔	↔	↓	↔	42	42	250	718	718	155	no
ALTL	Alanine Aminotransferase	X	X	X		↔	↔	↑	↑	no	no	130	no	no	81	150
ALTPL	Alanine Aminotransferase Pyridoxal Phosphate Activated	X	X	X		↔	↔	↑	↔	no	no	130	no	no	81	no
AMIKM ³	Amikacin	X	X			↑	↑	↑	n/a	18	18	1000	308	308	621	Intralipid not measured ²

↑ over-recovery

↓ under-recovery

↓↑ variable recovery outside of specification, high and low

↔ recovery within ±10% of initial concentration

Source: COBAS INTEGRA® Method Sheets and Application Reports

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
AMYL2	α-Amylase EPS ver.2	X	X	X		↓	↔	↓	↔	52	no	260	889	no	161	no
AMY-P	α-Amylase EPS Pancreatic	X	X			↓	↓	↓	↔	17	17	100	300	300	62	no
AP2P	ALP IFCC Gen.2 Primary Tube	X	X			↔	↔	↓	↔	no	no	250	no	no	155	no
APOAT	Apolipoprotein A-1 ver.2	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	1000
APOBT	Apolipoprotein B ver.2	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	1000
ASO2	Antistreptolysin O Application for C.f.a.s. PAC	X				↔	↔	↔	↓	no	no	no	no	no	no	1500
ASTL	Aspartate Aminotransferase Pyridoxal Phosphate Activated	X	X	X		↔	↔	↑	↑	no	no	25	no	no	16	150
ASTPL	Aspartate Aminotransferase Pyridoxal Phosphate Activated	X	X	X		↔	↔	↑	↔	no	no	25	no	no	16	no
AT	Antithrombin				X	↔	↔	↔	↔	no	no	no	no	no	no	no
BIL-D	Bilirubin Direct	X	X			n/a	n/a	↓	↓	n/a	n/a	10	n/a	n/a	6	270
BIL-D	Gen. 2	X	X	X		n/a	n/a	↓	↔	n/a	n/a	25	n/a	n/a	16	750
BILT2	Bilirubin Total DPD	X	X	X		n/a	n/a	↓	↓	n/a	n/a	140	n/a	n/a	87	1300
BILT3	Bilirubin Total Gen. 3	X	X ⁽⁴⁾	X ⁽⁸⁾		n/a	n/a	↔	↔	n/a	n/a	800	n/a	n/a	497	1000
BILT3	Bilirubin Total Gen. 3 for Neonates	X	X ⁽⁴⁾	X ⁽⁸⁾		n/a	n/a	↔	↔	n/a	n/a	1000	n/a	n/a	621	1000

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↓ under-recovery

↓↑ variable recovery outside of specification, high and low

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															Turbidity
BIL-T	Bilirubin Total	X			n/a	n/a	↑	↑	n/a	n/a	10	n/a	n/a	6	9
BILTS	Total Bilirubin Special	X	X	X	n/a	n/a	↓	↑	n/a	n/a	1000	n/a	n/a	621	1400
C3C-2	Complement C3c ver.2	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
C4-2	Complement C4 ver.2	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no
CA	Calcium	X	X ^{*4}		↔	↔	↔	↔	no	no	no	no	no	no	no
CA2	Calcium Gen. 2	X	X ^{*4}		↔	↔	↔	↔	60	60	1000	1026	1026	621	1000
CARB³	Carbamazepine	X	X		↓↑	n/a	↓	n/a	20	20	750	342	342	466	Intralipid not measured ²
CERU	Ceruloplasmin	X	X		↔	↔	↔	↑	no	no	no	no	no	no	50
CERU2	Ceruloplasmin Application for C.f.a.s. Proteins	X	X		↔	↔	↔	↑	no	no	no	no	no	no	50
CERU3	Ceruloplasmin Application for C.f.a.s. PAC	X	X		↔	↔	↔	↑	no	no	no	no	no	no	50
CHE	Cholinesterase	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no
CHE2	Cholinesterase Gen.2	X	X	X	↔	↔	↔	↑	no	no	350	no	no	217	1000
CHET2	Cholinesterase Total Gen.2	X	X	X					no	no	350	no	no	217	1000
CHE-D	Cholinesterase/Dibucaine	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
CHED2	Cholinesterase/Dibucaine Gen.2 (decision level 5000 U/L)	X	X	X		↔	↑	↑	↔	no	50	150	no	50	93	400
CHED2	Cholinesterase/Dibucaine Gen.2 (decision level 1250 U/L)	X	X	X		↔	↑	↑	↓	no	50	150	no	50	93	400
CHOL2	Cholesterol Gen.2	X	X	X		↓	↓	↑	↔	16	11	810	274	188	503	no
CKL	Creatine Kinase	X	X			↑	↑	↑	↔	15	15	100	255	255	62	no
CKMBL	Creatine Kinase-MB	X	X			↓	↓	↑	↑	20	20	10	340	340	6	500
Cl	Chloride (03003523001)	X	X ^{*4}			↔	↔	↔	↑	no	no	1000	no	no	621	no
Cl	Chloride Gen. 2 (04581008)	X	X ^{*4}			↔	↔	↔	↔	no	no	1000	no	no	621	no
CO2-L	Bicarbonate liquid	X	X			↔	↔	↔	↔	no	no	no	no	no	no	no
CREJC	Creatinine Jaffé Integra 400 Comp. Method for Serum and Plasma	X	X	X		↓	↓	↑	↓	5	5	800	85	85	497	250
CREJC	Creatinine Jaffé Integra 700/800 Comp. Method for Serum and Plasma	X	X	X		↓	↓	↑	↓	5	5	400	85	85	248	250
CREP2	Creatinine plus ver.2	X	X	X		↓	↓	↓	↓	20	20	800	340	340	497	1000
CRPL2	C-Reactive Protein (Latex) Integra 400 Application for C.f.a.s. Proteins	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	1500 (3 mg/l)

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CRPL2	C-Reactive Protein (Latex) Integra 400 Application for C.f.a.s. Proteins	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	Turbidity 623 (80 mg/l)
CRPL2	C-Reactive Protein (Latex) Integra 700/800 Application for C.f.a.s. Proteins	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	1094 (3 mg/l)
CRPHS	C-Reactive Protein High Sensitive	X	X	X		↔	↔	↓	↓	60	60	1000	1026	1026	621	500
CRPL2	C-Reactive Protein (Latex) Integra 700/800 Application for C.f.a.s. Proteins	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	797 (80 mg/l)
CSAII	Cyclosporine				X ³⁾	↔	↔	no ⁶⁾	↔	50	50	no ⁶⁾	855	855	no ⁶⁾	1500
D-DI	D-Dimer		X		X	↔	↔	↓	↓	no	no	300	no	no	186	600
DIG³	Digoxin	X	X			↓	↓	↓	n/a	25	25	2000	428	428	1242	Intralipid not measured ²
DIGIT³	Digitoxin	X	X			↔	↑	↑	n/a	19	19	1000	325	325	621	Intralipid not measured ²
ETOH2	Ethanol Gen.2	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
FERR2	Ferritin Gen.2	X	X			↔	↔	↔	↓	no	no	960	no	no	596	160
FPHNY³	Free Phenytoin	X	X			↔	↔	↑	n/a	26	26	1000	445	445	621	Intralipid not measured ²
FRA	Fructosamine	X	X	X		↑	↑	↑	↔	5	5	50	85	85	31	no
FVALP³	Free Valproic Acid	X		X		↔	↔	↔	n/a	27	27	1000	462	462	621	Intralipid not measured ²

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
GENT³	Gentamicin	X	X			↓	↓	n/a	15	15	1000	257	257	621	Intralipid not measured ²	
GGT12	γ-Glutamyltransferase ver.2 Standardized against IFCC	X	X	X		↔	↓	↑	↔	no	48	550	no	821	342	no
GGTS2	γ-Glutamyltransferase ver.2 Standardized against Szasz	X	X	X		↔	↓	↑	↔	no	48	550	no	821	342	no
GLDH3	GLDH Gen.3 Utility Cassette Set	X	X	X		↓	↓	↑	n/a	22	54	10	376	923	6	under evaluation
GLUC2	Glucose HK	X	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no
GLUC3	Glucose HK Gen.3	X	X	X	X	↔	↔	↔	↔	60	60	1200	1026	1026	745	1900
GLUCL	Glucose HK Liquid	X	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no
HAPT2	Haptoglobin ver.2	X	X	X		↔	↔	n/a	↓↑	no	no	n/a	no	no	n/a	1600
HBDH2	HBDH Gen.2 Utility Cassette Set	X	X	X		↔	↔	↑	↑	no	no	25	no	no	16	700
HDL_C	HDL-Cholesterol plus 2nd generation	X	X	X		↔	↓	↔	↔	24	24	1500	410	410	932	no
HDLC3	HDL-Cholesterol plus 3rd generation	X	X	X		↓	↔	↔	↔	47	60	1200	804	1026	745	2000
IGA	Immunoglobulin A	X	X	X		↔	↔	↔	↑	no	no	no	no	no	no	750
IGGT	Immunoglobulin G (Turbidimetric)	X	X	X	X	↔	↔	↔	↔	no	no	no	no	no	no	no
IGM	Immunoglobulin M	X	X			↔	↔	↔	↓	no	no	no	no	no	no	150

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity
IRON Iron	X	X			↑	↑	↑	↑	40	40	500	684	684	311	120
K Potassium	X	X ^{*4}			↔	↔	↑	↔	no	no	100	no	no	62	no
LACT2 Lactate Gen.2				X	↓	↔	↔	↔	18	no	no	308	no	no	no
LDHI2 Lactate Dehydrogenase acc. IFCC ver.2	X	X			↔	↔	↑	↔	no	no	10	no	no	6	no
LDHL Lactate Dehydrogenase (P-L)	X	X			↔	↔	↑	↓	no	no	10	no	no	6	120
LDHPL Lactate Dehydrogenase (P-L) Primary Tube	X	X			↔	↔	↑	↓	no	no	10	no	no	6	120
LDIP2 Lactate Dehydrogenase acc. IFCC ver.2 Primary Tube	X	X			↔	↔	↑	↔	no	no	10	no	no	6	no
LDL-C LDL-Cholesterol plus 2nd generation	X	X	X		↔	↑	↓	↓	40	40	1000	684	684	621	400
Li Lithium	X	X ^{*4}			↔	↔	↑	↔	no	no	100	no	no	62	no
LIDO³ Lidocaine	X	X			↑	↑	↓	n/a	18	18	1000	308	308	621	Intralipid not measured ²
LIPC Lipase colorimetric	X	X			↔	↔	↔	↔	no	no	no	no	no	no	no
LPALX Lipoprotein (a) (Latex)	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
LPA2 Lipoprotein (a) (Latex) Gen. 2	X	X ^{*9)}	X ^{*9)}		↔	↔	↔	↔	60	60	1000	1026	1026	621	2000
MG Magnesium	X	X ⁴⁾			↔	↔	↑	↔	no	no	550	no	no	342	no

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															Turbidity	
MYO	Myoglobin	X	X	X		↔	↔	↔	↓	no	no	no	no	no	no	100
MYO2	Myoglobin Gen.2 (Integra 800)	X	X	X		↔	↔	↔	↓	60	60	500	1026	1026	311	499
MYO2	Myoglobin Gen.2 (Integra 400)	X	X	X		↔	↔	↓	↓↑	60	60	500	1026	1026	311	500
Na	Sodium	X	X ²⁴			↔	↔	↔	↔	no	no	1000	no	no	621	no
NAPA ³	N-Acetyl-Procaïnamide	X	X			↓	↓	↓	n/a	28	28	1000	479	479	621	Intralipid not measured ²
NH3L	Ammonia			X		↑	↑	↑	↑	11	11	100	188	188	62	80
PHNO ³	Phenobarbital	X	X			↔	↔	↑	n/a	38	38	1000	650	650	621	Intralipid not measured ²
PHNY ³	Phenytoin	X	X			↓	↔	↑	n/a	29	29	1000	496	496	621	Intralipid not measured ²
PHNY ³	Phenytoin free	X	X			↔	↔	↔	n/a	25	25	1000	428	428	621	Intralipid not measured ²
PHOS2	Phosphate (Inorganic) ver.2	X	X	X		↓	↔	↑	↑	51	no	420	872	no	261	1000
PREA3	Prealbumin Integra 400 Application for C.f.a.s. PAC	X				↔	↔	↔	↑	no	no	no	no	no	no	120
PREA3	Prealbumin Integra 700/800 Application for C.f.a.s. PAC	X				↔	↔	↔	↑	no	no	no	no	no	no	169
PRIM ³	Primidone	X	X			↑	↓	↔	n/a	18	18	1000	308	308	621	Intralipid not measured ²
PROC ³	Procainamide	X	X			↔	↓	↔	n/a	19	19	1000	325	325	621	Intralipid not measured ²

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
QUIN³	Quinidine	X	X			↔	↔	↔	n/a	24	24	1000	410	410	621	Intralipid not measured ²
RF-II	Rheumatoid Factors II	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
Salicylate	Salicylate 20µg/mL	X	X			↑	↔	↑	n/a	23	23	600	393	393	373	n/a
	Salicylate 40µg/mL	X	X			n/a	n/a	n/a	↓	n/a	n/a	n/a	n/a	n/a	n/a	500
	Salicylate 200µg/mL	X	X			↔	↔	↔	↓	23	23	1000	393	393	621	1000
	Salicylate 300µg/mL³	X	X			↔	↔	↔	n/a	23	23	1000	393	393	621	Intralipid not measured ²
SBARB³	Serum Barbiturates	X	X			↓	↓	↔	n/a	24	24	1000	410	410	621	Intralipid not measured ²
SBENZ³	Serum Benzodiazepines	X	X			↓	↓	↔	n/a	23	23	1000	393	393	621	Intralipid not measured ²
STFR	Soluble Transferrin Receptor	X	X			↔	↔	↔	↔	no	no	no	no	no	no	no
T4³	Total T4 (Thyroxine)	X	X			↔	↔	↔	n/a	15	15	1000	257	257	621	Intralipid not measured ²
THEO³	Theophylline	X	X			↔	↔	↔	n/a	29	29	1000	496	496	621	Intralipid not measured ²
TOBR³	Tobramycin	X	X			↔	↔	↔	n/a	13	13	1000	222	222	621	Intralipid not measured ²
TMPA	Total Mycrophenic Acid	X		X		↑	↑	↔	↑	66	17	1000	1129	291	621	93 ⁷⁾
TP2	Total Protein	X	X	X		↔	↔	↑	↔	no	no	500	no	no	311	no

↑ over-recovery

↓ under-recovery

↑↓ variable recovery outside of specification, high and low

↔ recovery within ±10% of initial concentration

Reagents on COBAS INTEGRA® Systems

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

Please refer also to the latest Method Sheet

Analyte	Sample Material				Direction				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	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	
TRIGL	Triglycerides	X	X	X		↓	↓	↑	n/a	5	5	600	86	86	373	n/a
TRSF2	Transferrin ver.2	X	X			↔	↔	↔	↓	no	no	no	no	no	no	1500
T-UP ³	T-Uptake	X	X			↔	↔	↔	n/a	33	33	1000	564	564	621	Intralipid not measured ²
UA2	Uric Acid ver.2	X	X	X		↓	↓	↔	↔	39	35	no	667	599	no	no
UIBC	Unsaturated Iron-Binding Capacity	X	X			↔	↔	↑	↓	no	no	100	no	no	62	200
UREAL	Urea/BUN	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
VALP ³	Valproic Acid	X	X			↔	↔	↔	n/a	38	38	1000	650	650	621	Intralipid not measured ²
VALP ³	Valproic Acid free	X		X		↔	↔	↔	n/a	27	27	1000	462	462	621	Intralipid not measured ²
VANC ³	Vancomycin	X	X			↔	↔	↑	n/a	17	17	1000	291	291	621	Intralipid not measured ²

n/a = not applicable

no = no significant interference up to the highest tested level

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.

Only significant interferences (>10%) are listed in the method sheets

↑ over-recovery

↓ under-recovery

↓↑ variable recovery outside of specification, high and low

↔ recovery within ±10% of initial concentration

Reagents on COBAS INTEGRA® Systems

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

Please refer also to the latest Method Sheet

Analyte	Sample Material				Direction				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	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

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

² L index not measured with Intralipid®, interference measured as Triglycerides (see Method Sheet)

³ Endogenous bilirubin samples were used, total bilirubin was measured

⁴ only Lithium-Heparin-Plasma

⁵ whole blood sample

⁶ No significant interference over a hematocrit range from 15-54 %

⁷ No significant interference up to a triglycerides level of 500 mg/dL (5.65 mmol/L) with a recovery specification of ± 10 % or 600 mg/dL (6.78 mmol/L) with a recovery specification of ± 15 %.

⁸ K2-EDTA / K3-EDTA / the use of EDTA-plasma may lead to slightly lower values

⁹ K2-EDTA / K3-EDTA / Li-Heparin

↑ over-recovery

↓ under-recovery

↓↑ variable recovery outside of specification, high and low

↔ recovery within ±10% of initial concentration