

# Reagents on COBAS INTEGRA® Systems

List of interferences<sup>1</sup> 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 <sup>1</sup>	
	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bil. Interference	Unconj. Bil. 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 <sup>®</sup>	
									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
A1C-2		x <sup>10)</sup>	x <sup>10)</sup>	x <sup>10)</sup>	↔	↓	n.a.	↓	60	60	n.a.	1026	1026	n.a.	600	
A1C-2		x <sup>10)</sup>	x <sup>10)</sup>	x <sup>10)</sup>	n.a.	n.a.	n.a.	n.a.	60	60	n.a.	1026	1026	n.a.	600	
A1C-3		x <sup>11)</sup>	x <sup>11)</sup>	x <sup>11)</sup>	↔	↔	n.a.	↓	60	60	n.a.	1026	1026	n.a.	600	
A1C-3		x <sup>11)</sup>	x <sup>11)</sup>	x <sup>11)</sup>	↔	↔	n.a.	↓	60	60	n.a.	1026	1026	n.a.	600	
AAGP2	X	X	X		↔	↔	↔	↓	60	60	1000	1026	1026	621	700	
AAT2	X	X	X		↔	↔	↔	↑	no	no	no	no	no	no	1200	
ACETA (only Integra 400plus)		X	X			↓	↔	↑	↓	<1	12	10	<17	210	6.2	1000
		X	X			↓	↔	↑	↓	9	no	200	154	no	124	1800
		X	X			↓	↔	↑	↔	12	no	350	205	no	217	2000
ACET2	x	x <sup>10)</sup>	x <sup>10)</sup>	x <sup>10)</sup>	↔	↔	↔	↔	30	30	800	510	510	496	400	
ACP2	x				↓	↓	↓	↔	1	1	100	17.1	17.1	62.1	200	
ALB2	X	X	X		↔	↔	↓	↔	no	no	420	no	no	261	no	
ALBS2	X	X	X		↔	↔	↔	↔	60	60	1000	1026	1026	621	1000	
ALP2	x	x <sup>12)</sup>			↔	↑	↓	↔	42	60	250	718	1026	155	2000	
ALP2 Primary Tube	x	x <sup>12)</sup>			↔	↔	↓	↔	42	60	250	718	1026	155	2000	
ALTL	X	X	X		↔	↔	↑	↑	no	no	130	no	no	81	150	
ALTPL	X	X	X		↔	↔	↑	↔	no	no	130	no	no	81	no	
AMIKM <sup>3</sup>	X	X			↑	↑	↑	n/a	18	18	1000	308	308	621	Intralipid not measured <sup>2</sup>	

↑ over-recovery  
 ↓ under-recovery  
 ↓↑ variable recovery outside of specification, high and low  
 ↔ recovery within ±10% of initial concentration

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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
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 (US)	Bilirubin Direct (only for US)	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
BILT3	Bilirubin Total Gen. 3	X	X <sup>(4)</sup>	X <sup>(8)</sup>		n/a	n/a	↔	↔	n/a	n/a	800	n/a	n/a	497	1000
BILT3	Bilirubin Total Gen. 3 for Neonates	X	X <sup>(4)</sup>	X <sup>(8)</sup>		n/a	n/a	↔	↔	n/a	n/a	1000	n/a	n/a	621	1000
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
CA2	Calcium Gen. 2	X	X <sup>(4)</sup>			↔	↔	↔	↔	60	60	1000	1026	1026	621	1000
CARB <sup>3</sup>	Carbamazepine	X	X			↓↑	n/a	↓	n/a	20	20	750	342	342	466	Intralipid not measured <sup>2</sup>
CERU3	Ceruloplasmin Application for C.f.a.s. PAC	X	X			↔	↔	↔	↑	no	no	no	no	no	no	50
CHE2	Cholinesterase Gen.2	X	X	X		↔	↔	↔	↑	no	no	350	no	no	217	1000

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity
CHET2	Cholinesterase Total Gen.2	X	X	X					no	no	350	no	no	217	1000
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
CK2 (only for I400)	Creatine Kinase	X <sup>13)</sup>	X <sup>9)</sup>	X <sup>9)</sup>	↓	↔	↑	↔	60	60	100	1026	1026	62.1	1000
CKMB2 (only for I400)	Creatine Kinase-MB	X <sup>13)</sup>	X <sup>9)</sup>	X <sup>9)</sup>	↔	↓	↑	↔	60	20	20	1026	342	12.4	500
Cl	Chloride (03003523001)	X	X <sup>-4)</sup>		↔	↔	↔	↑	no	no	1000	no	no	621	no
Cl	Chloride Gen. 2 (04581008)	X	X <sup>-4)</sup>		↔	↔	↔	↔	no	no	1000	no	no	621	no
CO2-L	Bicarbonate liquid	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
CREJ2	Creatinine Jaffé Gen. 2 Integra 400 Comp. Method for Serum and Plasma	x	x <sup>14)</sup>	x <sup>14)</sup>	n.a.	n.a.	n.a.	n.a.	5	5	800	85	85	497	250
CREJ2	Creatinine Jaffé Gen. 2 Integra 800 Comp. Method for Serum and Plasma	x	x <sup>14)</sup>	x <sup>14)</sup>	n.a.	n.a.	n.a.	n.a.	5	5	400	85	85	248	250
CREP2	Creatinine plus ver.2	X	X	X	↓	↓	↓	↓	20	20	800	340	340	497	1000

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	Serum	Heparin-Plasma	EDTA-Plasma	Others	Conj. Bil. Interference	Unconj. Bil. 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 <sup>®</sup>	
									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity	
CRPL2	C-Reactive Protein (Latex) Integra 400 Application for C.f.a.s. Proteins (for lower concentration around 3mg/L)	X	X	X		↔	↔	↔	↑	no	no	no	no	no	no	1500 (3 mg/l)
CRPL2	C-Reactive Protein (Latex) Integra 400 Application for C.f.a.s. Proteins (for higher concentration around 80mg/L)	X	X	X		↔	↔	↔	↑	no	no	no	no	no	no	623 (80 mg/l)
CRPHS	C-Reactive Protein High Sensitive	X	X	X		↔	↔	↓	↓	60	60	1000	1026	1026	621	500
CSAII	Cyclosporine				X <sup>5)</sup>	↔	↔	no <sup>6)</sup>	↔	50	50	no <sup>6)</sup>	855	855	no <sup>6)</sup>	1500
CYSC2	Tina-quant Cystatin C Gen.2	x	x <sup>9)</sup>	x <sup>9)</sup>		↔	↔	↓	↔	60	60	1000	1026	1026	621	1000
D-DI2	Tina-quant D-Dimer Gen. 2	see Method Sheet				↔	↔	↔	↓	60	30	500	1026	513	310	600
DIG <sup>3</sup>	Digoxin	X	X			↓	↓	↓	n/a	25	25	2000	428	428	1242	Intralipid not measured <sup>2</sup>
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
FPHNY <sup>3</sup>	Free Phenytoin	X	X			↔	↔	↑	n/a	26	26	1000	445	445	621	Intralipid not measured <sup>2</sup>
FRA	Fructosamine	X	X	X		↑	↑	↑	↔	5	5	50	85	85	31	no
FVALP <sup>3</sup>	Free Valproic Acid	X		X		↔	↔	↔	n/a	27	27	1000	462	462	621	Intralipid not measured <sup>2</sup>
GENT <sup>3</sup>	Gentamicin	X	X			↓	↓	↓	n/a	15	15	1000	257	257	621	Intralipid not measured <sup>2</sup>
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

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GLDH3	GLDH Gen.3 Utility Cassette Set				↓	↓	↑	n/a	22	54	10	376	923	6	Turbidity under evaluation
GLUC2	Glucose HK				↔	↔	↔	↔	60	60	1200	1026	1026	745	1900
GLUC3 SGLU3	Glucose HK Gen.3				↔	↔	↔	↔	60	60	1200	1026	1026	745	1900
GLUCL	Glucose HK Liquid				↔	↔	↔	↔	no	no	no	no	no	no	no
HAPT2	Haptoglobin ver.2				↔	↔	n/a	↓↑	no	no	n/a	no	no	n/a	1600
HBDH2	HBDH Gen.2 Utility Cassette Set				↔	↔	↑	↑	no	no	25	no	no	16	700
HCYS	Homocysteine Enzymatic Assay				↓↑	↓↑	↔	↔	20	20	100	342	342	62	250
HDLC3	HDL-Cholesterol plus 3rd generation				↓	↔	↔	↔	47	60	1200	804	1026	745	2000
HDLC4	HDL-Cholesterol plus 4th generation				↓	↔	↔	↔	60	60	1200	1026	1026	745	2000
IGA	Immunoglobulin A				↔	↔	↔	↑	60	60	1000	1026	1026	621.00	750
IGAP	Immunoglobulin A (sensitive application)				↔	↔	↔	↔	60	60	1000	1026	1026	621	no
IGGT	Immunoglobulin G (Turbidimetric)				↔	↔	↔	↔	no	no	no	no	no	no	no
IGM	Immunoglobulin M				↔	↔	↔	↓	60	60	1000	1026	1026	621	150
IGMP	Immunoglobulin M (sensitive application)				↔	↔	↔	↓	60	60	1000	1026	1026	621	100
IRON2	IRON Gen. 2				↔	↑	↑	↔	60	60	200	1026	1026	124	2000
K	Potassium				↔	↔	↑	↔	no	no	100	no	no	62	no
KAPP2	Tina-quant Kappa Gen.2				↔	↔	↔	↔	60	60	1000	1026	1026	621	2000
LACT2	Lactate Gen.2				↓	↔	↔	↔	18	no	no	308	no	no	no

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PHNO <sup>3</sup>	X	X			↔	↔	↑	n/a	38	38	1000	650	650	621	Turbidity	
PHNY <sup>3</sup>	X	X			↓	↔	↑	n/a	29	29	1000	496	496	621	Intralipid not measured <sup>2</sup>	
PHNY <sup>3</sup>	X	X			↔	↔	↔	n/a	25	25	1000	428	428	621	Intralipid not measured <sup>2</sup>	
PHOS2	X	X	X		↓	↔	↑	↑	51	no	420	872	no	261	1000	
PREA3	X				↔	↔	↔	↑	no	no	no	no	no	no	120	
PREA3	X				↔	↔	↔	↑	no	no	no	no	no	no	169	
PRIM <sup>3</sup>	X	X			↑	↓	↔	n/a	18	18	1000	308	308	621	Intralipid not measured <sup>2</sup>	
PROC <sup>3</sup>	X	X			↔	↓	↔	n/a	19	19	1000	325	325	621	Intralipid not measured <sup>2</sup>	
QUIN <sup>3</sup>	X	X			↔	↔	↔	n/a	24	24	1000	410	410	621	Intralipid not measured <sup>2</sup>	
RF-II	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no	
Salicylate	Salicylate 20µg/mL		X	X			↑	↔	↑	n/a	23	23	600	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	500
	Salicylate 200µg/mL		X	X			↔	↔	↔	↓	23	23	1000	393	621	1000
	Salicylate 300µg/mL <sup>3</sup>		X	X			↔	↔	↔	n/a	23	23	1000	393	621	Intralipid not measured <sup>2</sup>

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SBARB <sup>3</sup>	X	X			↓	↓	↔	n/a	24	24	1000	410	410	621	Intralipid not measured <sup>2</sup>
SBENZ <sup>3</sup>	X	X			↓	↓	↔	n/a	23	23	1000	393	393	621	Intralipid not measured <sup>2</sup>
STFR	X	X			↔	↔	↔	↔	no	no	no	no	no	no	no
THEO <sup>3</sup>	X	X			↔	↔	↔	n/a	29	29	1000	496	496	621	Intralipid not measured <sup>2</sup>
TOBR <sup>3</sup>	X	X			↔	↔	↔	n/a	13	13	1000	222	222	621	Intralipid not measured <sup>2</sup>
TMPA	X		X		↑	↑	↔	↑	66	17	1000	1129	291	621	93 <sup>7)</sup>
TP2	X	X	X		↔	↔	↑	↔	no	no	500	no	no	311	no
TP2M	X	X <sup>16)</sup>	X <sup>16)</sup>		↔	↔	↑	↔	60	60	500	1026	1026	310	2000
TRIGL	X	X	X		↓	↓	↑	n/a	5	5	600	86	86	373	n/a
TRSF2	X	X			↔	↔	↔	↓	no	no	no	no	no	no	1500
UA2	X	X	X		↓	↓	↔	↔	39	35	no	667	599	no	no
UIBC	X	X			↔	↔	↑	↓	no	no	100	no	no	62	200
UREAL	X	X	X		↔	↔	↔	↔	no	no	no	no	no	no	no
VALP <sup>3</sup>	X	X			↔	↔	↔	n/a	38	38	1000	650	650	621	Intralipid not measured <sup>2</sup>
VALP <sup>3</sup>	X		X		↔	↔	↔	n/a	27	27	1000	462	462	621	Intralipid not measured <sup>2</sup>
VANC <sup>3</sup>	X	X			↔	↔	↑	n/a	17	17	1000	291	291	621	Intralipid not measured <sup>2</sup>

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									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity

n/a = not applicable

no = no significant interference up to the highest tested level

<sup>1</sup> 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<sup>®</sup> (2000 mg/dl). Lipemia has no units as it is a measure of turbidity.

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

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

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

<sup>3</sup> Endogenous bilirubin samples were used, total bilirubin was measured

<sup>4</sup> only Lithium-Heparin-Plasma

<sup>5</sup> whole blood sample

<sup>6</sup> No significant interference over a hematocrit range from 15-54 %

<sup>7</sup> 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 %. No significant

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

<sup>9</sup> K2-EDTA / K3-EDTA / Li-Heparin

<sup>10</sup> Anticoagulated venous or capillary blood. The only acceptable anticoagulants is Li-Heparin, K2-EDTA, K3-EDTA and potassium fluoride/Na2-EDTA

↑ 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 interferences<sup>1</sup> 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 <sup>1</sup>
	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 <sup>®</sup>
									~mg/dl	~mg/dl	~mg/dl	~µmol/l	~µmol/l	~µmol/l	Turbidity

<sup>11</sup> Anticoagulated venous or capillary blood. The only acceptable anticoagulants is Li-Heparin, K2-EDTA, K3-EDTA, Fluoride/Na2-EDTA, Na-Heparin and Fluorid/potassium oxalate

<sup>12</sup> Li-, Na-, NH<sub>4</sub><sup>+</sup> Heparin Plasma

<sup>13</sup> Nonhemolyzed serum

<sup>14</sup> Li-Heparin or EDTA Plasma

<sup>15</sup> K2-EDTA Plasma

<sup>16</sup> Li-Heparin or K3-EDTA Plasma

↑ over-recovery

↓ under-recovery

↕ variable recovery outside of specification, high and low

↔ recovery within ±10% of initial concentration