Supplementary material for Monneret D. et al. Hemolysis indexes for biochemical tests and immunoassays on Roche analyzers: Determination of allowable interference limits according to different calculation methods. Scand J Clin Lab Invest 2015;75:162–9.

Supplementary Table A. Principles of methods and reagents references.

Analyte	Manufacturer	Principle of methods/technology	Wavelength (nm)	Reagents references
A1AGP	Roche	Specific antibodies/Turbidimetry	340–660	03333795190
A2M	Diagam	Specific antibodies/Turbidimetry	340–700	TRBUF/MGTUR
AFP	Roche	Specific antibodies/ECL	na	04481798190
ALB-pl	Roche	Bromocresol green/Spectrophotometry	570–505	11929631216/11970917216
ALB-se	Diagam	Specific antibodies/Turbidimetry	340–700	I7BUF/ALTUR
ALP	Roche	IFCC/Spectrophotometry	450–480	12173158122/12173174122
ALT	Roche	IFCC with P5P/Spectrophotometry	340–700	04570430190/04570448190
AMY	Roche	IFCC/Enzymatic/Spectrophotometry	415–700	11876473316
APOA1	Roche	Specific antibodies/Turbidimetry	340–700	06301703190
AST	Roche	IFCC with P5P/Spectrophotometry	340–700	04571100190/04571118190
B12	Roche	Specific antibodies/ECL	na	04745736190
Ca	Roche	Cresolphthalein Complexone/Spectrophotometry	600–700	04580664190/04580699190
CHOL	Roche	Enzymatic/Spectrophotometry	505–700	11875540216
CK	Roche	IFCC/Enzymatic/Spectrophotometry	340–546	04580591190/04580613190
Cl	Roche	Ion Selective Electrodes/Indirect potentiometry	na	11183974216
C02	Roche	Enzymatic/Spectrophotometry	415–505	03289907190
CORT	Roche	Specific antibodies/ECL	na	11875116122
CREA	Roche	Picrate alkaline buffer (Jaffe)/Spectrophotometry	505–570	11875663216/11929941216
CRP	Roche	Specific antibodies/Turbidimetry	570–800	04995554190
E2	Roche	Specific antibodies/ECL	na	03000079122
FOL	Roche	Specific binding protein/ECL	na	04476433190
FSH	Roche	Specific antibodies/ECL	na	11775863122
GGT	Roche	Enzymatic/Spectrophotometry	415–700	12017245216/12017261216
GLU	Roche	Enzymatic/Spectrophotometry	340–700	11929534216/11929542216
HPT	Roche	Specific antibodies/Turbidimetry	340–700	11557629316
hsTnT	Roche	Specific antibodies/ECL	na	05092744190
IGA	Roche	Specific antibodies/Turbidimetry	340–700	03507343190
IGG	Roche	Specific antibodies/Turbidimetry	340–700	03507432190
IGM	Roche	Specific antibodies/Turbidimetry	340–700	03507190190
IRON	Roche	Colorimetry/Spectrophotometry	570–700	03183696122
K	Roche	Ion Selective Electrodes/Indirect potentiometry	na	11183974216
LDH	Roche	Enzymatic/Spectrophotometry	340–546	04795024190/04796292190
LIP	Roche	Enzymatic/Spectrophotometry	570–700	11929887216/11929895216
LH	Roche	Specific antibodies/ECL	na	11732234122
Mg	Roche	Colorimetry/Spectrophotometry	600–505	11929615216/11929623216
Na	Roche	Ion Selective Electrodes/Indirect potentiometry	na	11183974216
NTPBNP	Roche	Specific antibodies/ECL	na	04842464190
PALB	Roche	Specific antibodies/Turbidimetry	340–700	20764655322
PHOS	Roche	Colorimetry/Spectrophotometry	340–700	11875949216/11875965216
PROG	Roche	Specific antibodies/ECL	na	12145383122
TG	Roche	Enzymatic/Spectrophotometry	505–700	11876023216
TP-pl	Roche	Colorimetry/Spectrophotometry	546–700	12000903216/12000920216
TRF	Roche	Specific antibodies/Turbidimetry	505–700	03015050122
UA	Roche	Enzymatic/Spectrophotometry	546–700	11929429216/11929437216
UR	Roche	Enzymatic/Spectrophotometry	340–700	11929470216/11929488216

Abbreviations: ECL: electrochemiluminescence; IFCC: International Federation of Clinical Chemistry; na: not applicable; P5P: pyridoxal 5'-phosphate.

Plasma
Hemoglobin mg/dL*	6.04 16.4 28.7 48.7 67.7 89.4 109 131 153 172 193 214 308 451
Serum
Hemoglobin mg/dL*	8.94 20.9 31.4 52.4 72.5 92.6 115 138 158 182 197 219 309 443

* 1 mg/dL (conventional units) = 0.621 μmol/L (SI units)

Supplementary Figure A. Visual aspect and hemoglobin concentrations of the overload ranges. According to the French Society of Clinical Biology (SFBC) protocol, two extended ranges from a pool of heparinized plasma and a pool of serum, both free of interferences, were overloaded by increasing amounts of a Hb-titrated hemolyzate, prepared according to the Clinical and Laboratory Standards Institute guidelines (CLSI EP7-A2).

Supplementary Figure B. Detailed graphs of percentage changes of analyte concentrations according to the hemolysis interference degree. The detailed graphs of significant percentage changes of analyte concentrations according to the hemolysis interference degree (expressed as hemoglobin, in mg/dL) are presented, including the $\pm 10\% \Delta$, $\pm 20\% \Delta$, $\pm 50\% \Delta$, $\pm 100\% \Delta$ -related HI values. Abbreviations: $\% \Delta$: % change of concentration from non-hemolyzed baseline pool; HI: hemolysis indexes; LDH: lactate dehydrogenase; AST: aspartate aminotransferase; K: potassium; CK: creatine kinase; PHOS: phosphorus; ALT: alanine aminotransferase; LIP: lipase; TG: triglycerides; HPT: haptoglobin; hsTnT: high-sensitive troponin T; ALP: alkaline phosphatase; MG: magnesium; FOL: folates; IRON: iron Fe^{2+} .

Supplementary **Figure B.** (Continued)