

Supplementary table 1. Lipid concentrations and lipemia index values in the pools.

NULM				IVLE			
Pools	TG (mmol/L)	CHOL (mmol/L)	Lipemia index (LU)	Pools	TG (mmol/L)	CHOL (mmol/L)	Lipemia index (LU)
Plasma Pool	1.2 ± 0.01	x	11 ± 1	Plasma Pool	1.2 ± 0.03	x	11 ± 1
1	21.9 ± 0.3	x	591 ± 10	1	23.4 ± 0.4	x	617 ± 14
2	16.9 ± 0.2	x	451 ± 9	2	17.7 ± 0.4	x	464 ± 8
3	11.9 ± 0.1	x	309 ± 4	3	12.3 ± 0.2	x	316 ± 4
4	6.4 ± 0.1	x	165 ± 2	4	6.53 ± 0.1	x	163 ± 3
5	3.9 ± 0.04	x	89 ± 2	5	3.89 ± 0.02	x	85 ± 2
Cardiac Serum Pool	1.5 ± 0.02	4.4 ± 0.03	11 ± 2	Cardiac Serum Pool	1.5 ± 0.03	4.4 ± 0.03	11 ± 2
1	21.7 ± 0.3	9.2 ± 0.2	603 ± 5	1	23.3 ± 0.4	4.9 ± 0.1	621 ± 6
2	16.8 ± 0.2	7.7 ± 0.1	459 ± 5	2	18.3 ± 0.2	4.4 ± 0.1	476 ± 3
3	12.0 ± 0.1	6.6 ± 0.1	315 ± 4	3	12.3 ± 0.2	4.3 ± 0.1	319 ± 3
4	6.5 ± 0.1	5.5 ± 0.03	169 ± 1	4	6.85 ± 0.1	4.4 ± 0.03	166 ± 2
5	4.1 ± 0.1	4.9 ± 0.1	90 ± 1	5	4.28 ± 0.03	4.4 ± 0.1	92 ± 1
Biochemistry Serum Pool	1.5 ± 0.02	4.6 ± 0.1	18 ± 1	Biochemistry Serum Pool	1.5 ± 0.1	4.6 ± 0.1	18 ± 1
1	22.5 ± 0.3	9.5 ± 0.1	614 ± 6	1	22.7 ± 0.2	4.9 ± 0.3	633 ± 12
2	15.9 ± 0.2	7.7 ± 0.2	424 ± 3	2	17.6 ± 0.3	4.5 ± 0.1	478 ± 2
3	11.3 ± 0.1	6.7 ± 0.1	292 ± 1	3	12.6 ± 0.5	4.5 ± 0.1	332 ± 3
4	6.2 ± 0.1	5.7 ± 0.1	159 ± 1	4	6.66 ± 0.03	4.6 ± 0.03	174 ± 4
5	3.9 ± 0.04	5.1 ± 0.1	89 ± 1	5	4.10 ± 0.01	4.5 ± 0.1	95 ± 2

x - it is recommended not to use citrated plasma in the test package insert for cholesterol measurement; therefore, cholesterol was not measured in the plasma pool. LU - lipemia unit, corresponding to mg/dL of Intralipid. There were strong positive correlations between triglyceride concentration and lipemia index values in all pools for both lipemia types (Spearman correlation, r values in all pools were 1 for both types of lipemia). NULM - native ultralipemic material. IVLE - intravenous lipid emulsion. TG - triglyceride. CHOL - total cholesterol.

Supplementary table 2. Manufacturer lipemia interference declarations for biochemistry parameters.

Parameters	Direction of the interference	Lipemia index (Intralipid)
Alb	↓	550
ALT	↓	150
AST	↓	150
AMY	↓	1500
CREA	↓↑	800
DBIL	↑	750
TBIL	↑	1000
Ca	↔	1000
CHE	↔	1000
LD	↓	900
GGT	↔	1500
Glc	↑	1000
CK	↔	1000
Mg	↑	2000
Phos	↑	1250
Na, K, Cl	↓	2000
UA	↔	1500
Urea	↓	1000
CRP	↑	1000
CK-MB	NS	1500
pro-BNP	NS	1500
hs-TnT	NS	1500

↓: Low recovery. ↑: High recovery. ↓↑: Variable recovery. ↔: Recovery within ±10% of basal concentration. NS: Not specified. Alb - albumin. ALT - alanine aminotransferase. AST - aspartate aminotransferase. AMY - amylase. CREA - creatinine. DBIL - direct bilirubin. TBIL - total bilirubin. Ca - calcium. CHE - cholinesterase. LD - lactate dehydrogenase. GGT - gamma-glutamyl transferase. Glc - glucose. CK - creatin kinase. Mg - magnesium. Phos - inorganic phosphate. Na - sodium. K - potassium. Cl - chloride. UA - uric acid. CRP - C-reactive protein. CK-MB - creatine kinase MB isoenzyme mass. pro-BNP - pro-brain natriuretic peptide. hs-TnT, high - sensitivity troponin T.

Supplementary table 3. Lipid concentrations of interferent solutions.

	NULM	IVLE
TG (mmol/L)	469	501
CHOL (mmol/L)	340	34
HDL (mmol/L)	94	12
LDL (mmol/L)	152	16

NULM - native ultralipemic material. IVLE - intravenous lipid emulsion. TG - triglyceride. CHOL - cholesterol. HDL - high-density lipoprotein cholesterol. LDL- low-density lipoprotein cholesterol.