Appendix 1 Biochemical analysis methodology

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|  | **Test** | **Analyser** |
| 1 | Serum cholesterol | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 2 | Serum HDL-cholesterol | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 3 | LDL-cholesterol — calculated | Using Friedewald formula:  LDL-C [mg/dL] = total cholesterol [mg/dL] – HDL-C [mg/dL] – triglycerides [mg/dL]/5  If triglycerides concentration > 350 mg/dL, Friedewald formula cannot be used | |
| 4 | Serum triglycerides | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 5 | Serum creatinine | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 6 | eGFR | Calculated using the simplified MDRD equation: eGFR = 175× [(S × 0.0113)-1.154] × [age (years)]-0.203 × Z, where: S — serum creatinine [μmol/L]; Z = 0.742 (factor for females); Z = 1 (factor for males) |
| 7 | Serum hsCRP | Immulite 1000 Siemens Healthcare Diagnostics |
| 8 | Serum total bilirubin | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 9 | Serum ALT | Dimension EXL 200 Siemens Healthcare Diagnostics |
| 10 | Plasma NT-proBNP | Immulite 1000 Siemens Healthcare Diagnostics |
| 11 | Serum apoA1 | BN II Siemens Healthcare Diagnostics |
| 12 | Serum apoB | BN II Siemens Healthcare Diagnostics |