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  |