## 1 Salocor SARS-CoV-2 Antigen Quantitative Assay Kit<sup>©</sup> (Salofa Ltd, Salo, Finland)

## 2 protocol

The evaluated Salocor SARS-CoV-2 Antigen Quantitative Assay Kit<sup>©</sup> is based on a double 3 antibody sandwich method. The kit contains a 96-well plate coated with anti-SARS-CoV-2 N 4 protein antibody. If the serum sample contains SARS-CoV-2 N protein, the N protein 5 6 attaches both solid phase anti-SARS-CoV-2 N protein antibody and biotin-labelled anti-7 SARS-CoV-2 N protein antibody added with serum sample. The test procedure is briefly as follows: 50 ul of buffer solution containing biotin-labelled antobody against SARS-CoV-2 N 8 9 protein was added in each well coated with antibody against SARS-CoV-2 N protein. Next 50 ul of serum sample was added to each well with the exclusion of control well and 5 wells 10 for calibrators included in the kit and added alongside the sample material. After brief 11 mixing, the plate was incubated at 37 °C for 60 minutes followed by washing the wells five 12 times with the washing buffer. 100 ul of horseradish peroxidase-labelled streptavidin was 13 added to each well. After brief mixing, the plate was incubated at 37 °C for 30 minutes 14 followed by the washing step and adding 50 ul of buffer solution containing peroxidase and 15 50 ul of buffer solution containing 3,3',5,5'-tetramethylbenzidine. After brief mixing, the 16 plate was incubated at 37 °C for 15 minutes and color reaction was stopped by adding 50 ul 17 of stop solution containing sulfuric acid. Absorbance values were measured at 450 nm with a 18 19 reference set at 630 nm. The concentration values of samples were then calculated using standard curve with binomial fitting based on different calibrator absorbance values with 20 known SARS-CoV-2 N protein concentrations (pg/ml). Concentration values ≥2,97 pg/ml 21 were interpreted as positive according to the manufacturers' instructions. 22

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