biosensors

MDPI

*Supporting Information*

# Post-Vaccination Detection of SARS-CoV-2 Antibody Response with Magnetic Nanoparticle-Based Electrochemical Biosensor System

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## Characterization of MNPs

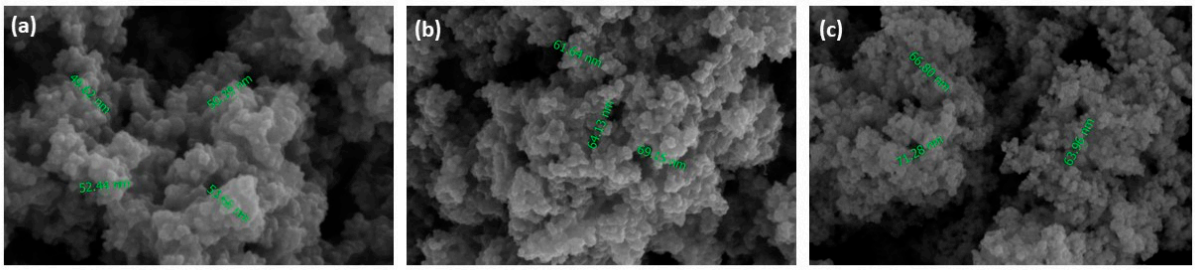



**Figure S1.** SEM images of (a) Amino-functionalized MNP; (b) MNP/EDC-NHS/SARS-CoV-2 S protein (c) MNP/EDC-NHS/SARS-CoV-2 N protein.

## Surface characterization

**Table S1.** Data of EIS and CV results.

| | Cationic Current Value (μA) | Anionic Current Value (μA) | Ohm (Ω) |
|---|---|---|---|
| **Bare SPCE** | -62.611 | 47.763 | 983 |
| **SPCE/MNP** | -56.812 | 43.145 | 1094 |
| **SPCE/MNP/EDC-NHS/S Protein** | -40.237 | 25.672 | 3742 |
| **SPCE/MNP/EDC-NHS/S Protein/ S Ab** | -36.149 | 21.496 | 4408 |
| **SPCE/MNP/EDC-NHS/N Protein** | -35.690 | 21.664 | 4464 |
| **SPCE/MNP/EDC-NHS/N Protein/ N Ab** | -35.714 | 15.609 | 5764 |