

Załącznik nr 2 do ogłoszenia o udzielanym zamówieniu nr ZZ/352/009/2022

### **Opis przedmiotu zamówienia**

Przedmiotem zamówienia jest dostawa materiałów i komponentów biologicznych do badań nad SarsCoV2 projektu badawczego realizowanego na Wydziale Elektroniki, Telekomunikacji i Informatyki Politechniki Gdańskiej.

Przedmiot zamówienia musi być fabrycznie nowy, pochodzący z bieżącej produkcji, wolny od wszelkich wad i uszkodzeń i nie może być przedmiotem praw osób trzecich.

Przedmiot zamówienia obejmuje dostawę do siedziby zamawiającego: Politechnika Gdańska, Wydział Elektroniki, Telekomunikacji i Informatyki, ul. Narutowicza 11/12, 80-233 Gdańsk, budynek WETI A (nr 41), pokój 116.

Kod CPV 33651500-3 surowice odpornościowe oraz immunoglobuliny.

#### **1. Recombinant HCoV-NL63 Spike RBD His-tag Protein, CF**

##### **Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining

##### **Endotoxin level**

<0.10 EU per 1 µg of the protein by the LAL method.

##### **Activity**

Recombinant HCoV-NL63 Spike RBD His-tag Protein binds Recombinant Human ACE-2 Fc Chimera Protein in a functional ELISA.

##### **Source**

Human embryonic kidney cell, HEK293-derived hcov-nl63 Spike RBD protein Ala475-Asp634

##### **Accession #**

YP\_003767.1

##### **N-terminal sequence**

Ala475 & Leu476

##### **Predicted Molecular Mass**

19 kDa

##### **SDS-PAGE**

30-38 kDa, under reducing conditions

##### **Favourable formulation**

Lyophilized

##### **Sample's size**

100 µg

#### **2. Recombinant HCoV-229E Spike RBD His-tag Protein, CF**

**Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining

**Endotoxin level**

<0.10 EU per 1 µg of the protein by the LAL method.

**Activity**

Measured by its binding ability in a functional ELISA with Recombinant Human Aminopeptidase N/CD13.

**Source**

Human embryonic kidney cell, HEK293-derived hcov-229e Spike RBD protein Ser292-Asp453

**Accession #**

P15423.1

**N-terminal sequence**

Ser292

**Predicted Molecular Mass**

19 kDa

**SDS-PAGE**

27-36 kDa, under reducing conditions

**Favourable formulation:**

Lyophilized

**Sample's size**

100 µg

**3. Recombinant HCoV-HKU1 Spike RBD His-tag Protein, CF****Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining

**Endotoxin level**

<0.10 EU per 1 µg of the protein by the LAL method.

**Source**

Human embryonic kidney cell, HEK293-derived hcov-hku1 Spike RBD protein Thr310-Tyr624

**Accession #**

Q5MQD0.1

**N-terminal sequence**

Thr310

**Predicted Molecular Mass**

36 kDa

**SDS-PAGE**

55-65 kDa, under reducing conditions

**Favourable formulation:**

Lyophilized

**Sample's size**

100 µg

**4. Recombinant SARS-CoV-2 B.1.617.2 Spike RBD His Protein, CF**

**Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining

**Endotoxin level**

<0.10 EU per 1 µg of the protein by the LAL method.

**Activity**

Measured by its binding ability in a functional ELISA with Recombinant Human ACE-2 His-tag

**Source**

Human embryonic kidney cell, HEK293-derived sars-cov-2 Spike RBD protein Arg319-Phe541 (Leu452Arg, Thr478Lys)

**Accession #**

YP\_009724390.1

**N-terminal sequence**

Arg319

**Predicted Molecular Mass**

26 kDa

**SDS-PAGE**

30-37 kDa, under reducing conditions

**Favourable formulation:**

Lyophilized

**Sample's size**

100 µg

**5. Recombinant SARS-CoV-2 B.1.1.529 S RBD His-tag Protein, CF**

**Purity**

>95%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining

**Endotoxin level**

<0.10 EU per 1 µg of the protein by the LAL method.

**Activity**

Measured by its binding ability in a functional ELISA with Recombinant Human ACE-2 His-tag

**Source**

Human embryonic kidney cell, HEK293-derived sars-cov-2 Spike RBD protein

**Accession #**

YP\_009724390.1

**N-terminal sequence**

Arg319

**Predicted Molecular Mass**

26 kDa

**SDS-PAGE**

33-39 kDa, under reducing conditions.

**Favourable formulation:**

Lyophilized

**Sample's size**

100 µg