20200720 nCoV NP 6C3-D7 protein A purification pH7.0 elution pH2.0

* Loading buffer:

0.02 M sodium phosphate, pH 7.0

* Elution buffer:

0.1 M citric acid, pH 2.0; 0.1M glycine-HCl, pH 2.0

* Neutralization buffer:

1.5 M Tris base

* Positive control:

Mouse anti-NP serum 1:1000

* Negative control:

Culture medium

* Plate layout:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A | 1:3 before purification | 1:3 flow-through | 1:3 washing fraction | 1:100 citric acid elution 1 | 1:100 citric acid elution 2 | 1:100 citric acid elution 3 | 1:100 citric acid elution 4 | 1:100 citric acid elution 5 | 1:100 citric acid elution 6 | 1:100 citric acid elution 7 | 1:100 citric acid elution 8 | 1:100 citric acid elution 9 |
| B | 1:100 citric acid elution 10 | 1:100 glycine elution 1 | 1:100 glycine elution 2 | 1:100 glycine elution 3 | 1:100 glycine elution 4 | 1:100 glycine elution 5 | 1:100 glycine elution 6 | 1:100 glycine elution 7 | 1:100 glycine elution 8 | 1:100 glycine elution 9 | 1:100 glycine elution 10 | pos |
| C | neg |  |  |  |  |  |  |  |  |  |  |  |
| D |  |  |  |  |  |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |  |  |  |  |  |
| F |  |  |  |  |  |  |  |  |  |  |  |  |
| G |  |  |  |  |  |  |  |  |  |  |  |  |
| H |  |  |  |  |  |  |  |  |  |  |  |  |

* Result:

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| <> | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| A | 1.771 | 1.655 | 0.546 | 0.03 | 0.367 | 0.524 | 0.483 | 0.455 | 0.282 | 0.22 | 0.173 | 0.098 |
| B | 0.076 | 0.088 | 0.462 | 0.334 | 0.147 | 0.207 | 0.035 | 0.039 | 0.038 | 0.034 | 0.024 | 3.368 |
| C | 0.033 | 0.005 | 0.003 | 0.005 | 0.008 | 0.005 | 0.004 | 0.004 | 0.007 | 0.008 | 0.005 | 0.006 |
| D | 0.012 | 0.009 | 0.014 | 0.005 | 0.003 | 0.003 | 0.004 | 0.009 | 0.007 | 0.008 | 0.008 | 0.005 |
| E | 0.013 | 0.01 | 0.008 | 0.007 | 0.009 | 0.006 | 0.002 | 0.002 | 0.007 | 0.007 | 0.008 | 0.006 |
| F | 0.007 | 0.009 | 0.006 | 0.006 | 0.004 | 0.004 | 0 | 0.011 | 0.01 | 0.004 | 0.005 | 0.008 |
| G | 0.004 | 0.011 | 0.005 | 0.002 | 0.004 | 0.005 | 0.003 | 0.004 | 0.005 | 0.004 | 0.004 | 0.005 |
| H | 0.013 | 0.007 | 0.006 | 0 | 0.004 | 0.005 | 0.003 | 0.003 | 0.002 | 0.003 | 0.003 | 0.001 |