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**Clinical diagnostic products for COVID-19 (SARS-CoV-2) – For Health Professionals Only**

**In vitro diagnostic reagents - CE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier**  | **Cat.no.** | **Description**  | **Sample type**  |
| RayBiotech | CG-CoV-IgM | Coronavirus (COVID-19) IgM Rapid Test Kit (20 tests) | Serum/plasma/whole blood |
| RayBiotech | CG-CoV-IgG | Coronavirus (COVID-19) IgG Rapid Test Kit (20 tests) | Serum/plasma/whole blood |

**For more information on the products, please enter the following link:**

**Ray biotech** <https://www.raybiotech.com/covid-19-igm-igg-rapid-test-kit/>

**Salivary Human Total Immunoglobulin G (IgG) ELISA Kit to Support Multidisciplinary Investigators in Serological Studies**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier**  | **Cat.no** | **Description**  | **Size**  |
| Salimetrics  | 1-4502 |  [Salivary Total Human IgG Assay Kit](https://salimetrics.com/assay-kit/salivary-total-human-igg-elisa-kit/)  | 96-well plate |
| Salimetrics  | 5016.02+ 5004.01 |  [SalivaBio’s passive drool](https://salimetrics.com/collection-method/passive-drool-saliva-collection-device/) | 50 Pcs |

**\* Kit features a dynamic range of 0.3125 – 20 ng/mL, functional sensitivity of 0.94 µg/mL, and average inter and intra-assay coefficients of variation less than 10%.**

**For more information on the products, please enter the following link:**

**Salimetrics** <https://salimetrics.com/assay-kit/salivary-total-human-igg-elisa-kit/>

<https://salimetrics.com/collection-method/passive-drool-saliva-collection-device/>

**Research Products for COVID-19 (SARS-CoV-2) - For Research Use Only**

**Antibodies**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Supplier** | **Cat.no** | **Description**  | **Host**  | **Application**  |
| RayBiotech | 128-10165-1 | Anti-SARS-CoV-2 Coronavirus Nucleocapsid Protein (and SARS-CoV) | Rabbit  | WB |
| RayBiotech | 128-10166-1 | Anti-SARS-CoV-2 Coronavirus Nucleocapsid protein (and SARS-CoV) | Mouse  | WB,IP, Direct ELISA |
| RayBiotech | 128-10168-1 | Anti-SARS-Associated Coronavirus (COVID-19) Spike Protein | Rabbit  | WB, Direct ELISA |
| BioVision | A2069 | Anti-Canine Coronavirus (Capture) Antibody | Mouse  | ELISA |
| BioVision | A2068 | Anti-Canine Coronavirus (Self-pair) Antibody | Mouse  | ELISA |
| BioVision | A2070 | Anti-Canine Coronavirus Polyclonal Antibody | Goat  | WB,ELISA |
| BioVision | A2063 | Anti-MERS & SARS-CoV NP Antibody | Mouse  | IF,ELISA |
| BioVision | A2065 | Anti-MERS-CoV S1 Antibody | Mouse  | WB,IF |
| BioVision | A2067 | Anti-MERS-CoV S1 Antibody | Mouse  | ELISA,IF |
| BioVision | A2066 | Anti-SARS-CoV NP Antibody | Mouse  | WB,ELISA,IF |
| BioVision | A2064 | Anti-SARS-CoV NP (1-49) Antibody | Mouse  | WB,ELISA,IF |
| BioVision | A2061 | Anti-SARS-CoV-2 Antibody | Rabbit | WB.ELISA |
| BioVision | A2060 | Anti-SARS-CoV-2 Antibody (Clone# 6F10) | Mouse  | WB, ELISA,, **IHC** |
| Axxora |  | 54 different Ab's  |  |  |
| Santa Cruz | SC-65653 | Coronavirus Antibody (FIPV3-70) -NP | Mouse  | WB, IF, **IHC(P)** |
| Santa Cruz | sc-66012 | Coronavirus nucleocapsid Antibody (CCV2-2) | Mouse  | WB,IF |

**For more information on the products, please enter the following link:**

**Ray biotech** <https://www.raybiotech.com/covid-19-antibodies-sars-cov-2/>

**BioVision** [https://www.biovision.com/catalogsearch/result/index/?product\_type=15&q=coronaviru**s**](https://www.biovision.com/catalogsearch/result/index/?product_type=15&q=coronavirus)

**Axxora** <https://www.axxora.com/product-listing/>

**Small molecules and Biochemicals**

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| --- | --- | --- | --- | --- |
| **Supplier** | **Name** | **Cat.no** | **CAS** | **Target**  |
| RayBiotech | Arbidol HCL | 331-11756 | 131707-23-8 | Viral spike glycoprotein for binding to host cell receptor ACE2 |
| RayBiotech | Ritonavir | 331-11642 | 155213-67-5 | HIV protease |
| RayBiotech | Lopinavir | 331-11643 | 192725-17-0 | Coronavirus main protease 3CLpro |
| RayBiotech | Darunavir | 331-11645 | 206361-99-1 | HIV protease |
| RayBiotech | Ribavirin | 331-10301 | 36791-04-5 | RNA-dependent RNA polymerase |
| RayBiotech | Chloroquine diphosphate | 331-11962 | 54-05-7 | Malaria (endosome/ACE2) |
| RayBiotech | Nitazoxanide | 331-11871 | 55981-09-4 | Viral protein expression |
| RayBiotech | Camostat mesilate | 331-10779 | 59721-29-8 | Transmembrane protease, serine 2, primes S protein to facilitate its binding to ACE2 |
| RayBiotech | Hydroxychloroquine Sulfate | 331-21357 | 747-36-4 | Malaria (endosome/ACE2) |
| RayBiotech | Baricitinib Phosphate | 332-10769 | 1187595-84-1 | JAK kinase that regulate the inflammatory processes |
| BioVision | Remdesivir | B2997 | 1809249-37-3 | A nucleoside analogue with antiviral activity |
| BioVision | Azithromycin | B1226 | 83905-01-5 | A macrolide antibiotic |
| BioVision | Hydroxychloroquine Sulfate | B2051 | 747-36-4 | An autophagy inhibitor  |

**For more information on the products, please enter the following link:**

**RayBiotech** <https://www.raybiotech.com/small-molecules-en/>

**BioVision** <https://www.biovision.com/catalogsearch/result/index/?product_type=14&q=coronavirus>

**Elisa kits and Cytokine Arrays**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier** | **Cat.no.** | **Description**  | **Application**  |
| RayBiotech | ELV-COVID19N-1 | COVID-19 N-Protein ELISA | ELISA |
| RayBiotech | ELH-ACE2-1 | Human ACE-2 ELISA | ELISA |
| RayBiotech | QAH-INF-1-1/2/3 | Human Inflammation Array Q1 (10 targets) | Multiplex ELISA |
| RayBiotech | QAH-INF-3-1/2/3 | [Human Inflammation Array Q3](https://www.raybiotech.com/quantibody-human-inflammation-array-3-1-slide) (40 targets) | Multiplex ELISA |
| RayBiotech | QAH-TH-1-1/2/3 | [Human Th1/Th2 Array Q1](https://www.raybiotech.com/quantibody-human-th1-th2-array-1-1-slide/) (10 targets) | Multiplex ELISA |
| BioVision | E4528 | ACE2 (Human) ELISA kit | ELISA |
| BioVision | E4536 | Angiotensin III (Ang III) (Human) ELISA kit | ELISA |
| Full moon | SCK100 | Cytokine Profiling Antibody Array | Multiplex ELISA |
| Immuno Chemistry Technologies | 9101 | Antigen-Down ELISA Development Kit – coated with target antigen to detect the presence of a specific antibody. | 10 x 96-well plates |

**For more information on the products, please enter the following link:**

**RayBiotech** <https://www.raybiotech.com/covid-19-elisa/>; <https://www.raybiotech.com/human-ace2-elisa/>

**BioVision** <https://www.biovision.com/catalogsearch/result/index/?product_type=16&q=coronavirus>

**Full moon** <https://www.fullmoonbio.com/product/cytokine-antibody-array/>

**ImmunoChemistry Technologies** <https://immunochemistry.com/product/antigen-elisa-development-kit/>

**Assay Kits**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier** | **Cat.no** | **Description** | **Size**  |
| BioVision | K1461-100 | Coronavirus Rapid RT-qPCR Detection Kit (2h) | 100 tests |
| BioVision | K1460-100 | [Coronavirus (SARS-CoV-2) PCR Detection Kit](https://www.biovision.com/coronavirus-sars-cov-2-pcr-detection-kit.html) | 100 tests |
| BioVision | K310-100 | [Angiotensin II Converting Enzyme (ACE2) Inhibitor Screening Kit](https://www.biovision.com/angiotensin-ii-converting-enzyme-ace2-inhibitor-screening-kit.html) | 100 tests |
| BioVision | K897-100 | [Angiotensin II Converting Enzyme (ACE2) Activity Assay Kit (Fluorometric)](https://www.biovision.com/angiotensin-ii-converting-enzyme-ace2-activity-assay-kit-fluorometric.html) | 100 tests |
| BioVision | K1463 | Coronavirus IgM/IgG Antibody Detection Card | 25/50/100 tests |
| BPS | 79936 | [ACE2:SARS-CoV-2 Spike Inhibitor Screening Assay Kit](https://bpsbioscience.com/ace2-sars-cov-2-spike-inhibitor-screening-assay-kit-79936) | 96 reactions |
| BPS | 79931 | [SARS-CoV-2 Spike:ACE2 Inhibitor Screening Assay Kit](https://bpsbioscience.com/sars-cov-2-spike-ace2-inhibitor-screening-assay-kit-79931) | 96 reactions |
| BPS | 79923 | [ACE2 Inhibitor Screening Assay Kit](https://bpsbioscience.com/ace2-inhibitor-screening-assay-kit-79923) | 96 reactions |
| Sciencell | 7038 | SARS-CoV-2 Coronavirus Real-time RT-PCR (RT-qPCR) Detection Kit | 100 reactions |
| RayBiotech | PCR-COV | Coronavirus (SARS-CoV-2) Real Time RT-PCR Nucleic Acid Detection Kit. Throat swabs and alveolar lavage. | 20 reactions |
| RayBiotech | CG-CoV-IgM-FP | Coronavirus (COVID-19) IgM Rapid Test Kit (finger prick) | 20 reactions |
| RayBiotech | CG-CoV-IgG-FP | Coronavirus (COVID-19) IgG Rapid Test Kit (finger prick) | 20 reactions |
| Axxora | PSC-PSI-1810-KI01 | SARS Protein Detection Set (ELISA) – including Ab's against: ACE2, SARS **E**, SARS **M**, SARS **S** and their corresponding blocking peptides.  | 1 set (50µg of each antibody and blocking peptide). |

**For more information on the products, please enter the following link:**

**BioVision** <https://www.biovision.com/catalogsearch/result/index/?product_type=16&q=coronavirus>

**BPS** <https://bpsbioscience.com/research-areas/coronavirus/assay-kits>

**RayBiotech** <https://www.raybiotech.com/coronavirus-real-time-rt-pcr-nucleic-acid-detection-kit/>

 <https://www.raybiotech.com/covid-19-igm-igg-rapid-test-kit/>

**Axxora** <https://www.axxora.com/PSC-PSI-1810/sars-protein-detection-set/>

**Sciencell** <https://www.sciencellonline.com/sars-cov-2-coronavirus-real-time-rt-pcr-rt-qpcr-detection-kit.html#product_tabs_additional_tabbed>

**PepTivator peptide pools - Stimulation of antigen-specific CD4+ and CD8+ T cells**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier**  | **Cat.no** | **Description**  | **size** |
| Miltenyi  | Soon to be release  | PepTivator® SARS-CoV-2 Prot\_M (membrane glycoprotein)  | 6/60 nmol per peptide |
| Miltenyi  | Soon to be release | PepTivator® SARS-CoV-2 Prot\_N (nucleocapsid phosphoprotein) | 6/60 nmol per peptide |
| Miltenyi  | Soon to be release | PepTivator® SARS-CoV-2 Prot\_S (surface glycoprotein) | 6/60 nmol per peptide |

**For more information on the products, please enter the following links per supplier:**

**Miltenyi** <https://www.miltenyibiotec.com/UN-en/lp/assisting-researchers-in-their-work-addressing-viral-threats/solutions--for-stimulation-enrichment-and-analysis-of-rare-virus-specific-T-cells.html>

**Recombinant Proteins**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Supplier**  | **Cat.no** | **Protein** | **Protein Domain** | **Purification** | **Expression****Host** |
| RayBiotech | 230-30164 | N protein |  Full length | Purified | HEK293 |
| RayBiotech | 230-01104 | Purified | E.coli |
| RayBiotech | 230-20409 | Unpurified | HEK293 |
| RayBiotech | 230-01102 | S protein,Spike |  S1 subunit, RBD | Purified | E.coli |
| RayBiotech | 230-01126 | Purified | HEK293 |
| RayBiotech | 230-20406 | Unpurified | HEK293 |
| RayBiotech | 230-20405 | Unpurified | HEK293 |
| RayBiotech | 230-01101 | S1 subunit, full-length | Purified | E.coli |
| RayBiotech | 230-20407 | Unpurified | HEK293 |
| RayBiotech | 230-01103 | S2 subunit, full-length | Purified | E.coli |
| RayBiotech | 230-20408 |  | Unpurified | HEK293 |
| RayBiotech | 230-30165 | Human ACE2 | Full length | Purified | HEK293 |
| BioVision | P1503 | Envelope Protein  | SARS-CoV ENV;1-76 | >95% | E.coli |
| BioVision | P1504 | Matrix Protein  | SARS-CoV; 182-216 | >95% | E.coli |
| BioVision | P1505 | Membrane Protein  | SARS-CoV, His tag | >90% | E.coli |
| BioVision | P1506 | Nucleoprotein  | CoV-NP 229E | >95% | E.coli |
| BioVision | P1507 | Nucleoprotein  | CoV-NP-NL63 | >95% | E.coli |
| BioVision | P1508 | Nucleoprotein  | SARS-CoV; 340-390 | >95% | E.coli |
| **Supplier** | **Cat.no** | **Protein**  | **Protein domain** | **Purification**  | **Expression Host** |
| BioVision | P1509 | Nucleoprotein  | SARS-CoV | >95% | E.coli |
| BioVision | P1510 | Nucleoprotein  | SARS-CoV; 1-49 | >95% | E.coli |
| BioVision | P1511 | Nucleoprotein  | SARS-CoV; 1-49, 192-220 | >95% | E.coli |
| BioVision | P1512 | Nucleoprotein  | SARS-CoV; 340-390 | >90% | E.coli |
| BioVision | P1513 | Human CellExp™ Spike Protein  | MERS-CoV S1; 18-725 | >85% | Mammalian cells |
| BioVision | P1514 | Spike Protein  | MERS-CoV S1; 56-295 | >95% | E.coli |
| BioVision | P1515 | Spike Protein  | SARS-CoV S1; 12-53, 90-115, 171-203 | >95% | E.coli |
| BioVision | P1516 | Spike Protein  | SARS-CoV S1; His tag | >90% | E.coli |
| BioVision | P1517 | Spike Protein  | SARS-CoV S2; 408-470, 540-573, His Tag | >90% | E.coli |
| BioVision | P1518 | Spike Protein  | SARS-CoV S2; 408-470, 540-573 | >95% | E.coli |
| BioVision | P1519 | Spike Protein  | SARS-CoV S2 | >95% | E.coli |
| BioVision | P1520 | Spike Protein  | SARS-CoV S, His tag | >90% | E.coli |
| BioVision | P1523 | Nucleoprotein | SARS-CoV-2 | >95% | E.coli |
| BioVision | P1524 | Human CellExp™ Spike Protein | SARS-CoV-2; S1 | >95% | Mammalian cells |
| BioVision | P1525 | Human CellExp™ Spike Protein  | SARS-CoV-2; S2 | >80% | Mammalian cells |
| BPS | 100688 | [2019-nCoV Spike S1, Fc-tag](https://bpsbioscience.com/2019-ncov-spike-s1-fc-tag) | 16-685aa |  | CHO cells |
| BPS | 100687 | [2019-nCoV Spike RBD, His-tag](https://bpsbioscience.com/2019-ncov-spike-rbd-his-tag-100687) | 319-541aa |  | CHO cells |
| BPS | 11003 | [ACE2, His-Tag](https://bpsbioscience.com/ace2-his-tag-11003) | 18-740aa |  | HEK293 |
| **Supplier**  | **Cat.no** | **Protein**  | **Protein domain**  | **purification**  | **Purification Host** |
| BPS | 79038 | [14-3-3 theta Protein, His-tag (Human)](https://bpsbioscience.com/14-3-3-theta-protein-79038) | Full length  | WB | Sf9 insect cells using baculovirus |
| BPS | 81091 | [PLPro, His-tag](https://bpsbioscience.com/plpro) | Enzyme | Active in the Ub-CHOP assay | E.coli |
| BPS | 81090 | [PLP2, His-tag](https://bpsbioscience.com/plp2) | Enzyme | Active in the Ub-CHOP assay | E.coli |
| BPS | 80005 | [Cathepsin L, His-tag](https://bpsbioscience.com/cathepsin-l-80005) | 18-333aa | C-terminal | FreeStyle 293-F cells |
| BPS | 80001 | [Cathepsin B, His-tag](https://bpsbioscience.com/cathepsin-b-80001) | CD33 1–16, CathepsinB 18–339 | Activity assay | FreeStyle 293-F cells |
| Axxora  |  | 47 different recombinant protein | Tag Fused and purified |  | Variety of sources |
| Chromotek | GTA-10/20/100 | GFP Trap | IP/Co-IP of GFP-fusions was conducted to identify host cell binding partners of virus proteins | IP/Co-IP | GFP Nanobody (Alpaca) coupled to agarose beads |

**For more information on the products, please enter the following links per supplier**:

**Ray biotech** <https://www.raybiotech.com/covid19-proteins/>

**BioVision** <https://www.biovision.com/catalogsearch/result/index/?product_type=13&q=coronavirus>

**BPS** <https://bpsbioscience.com/research-areas/coronavirus/proteins>

**Chromotek** <https://resources.chromotek.com/blog/virus-research-using-gfp>

**Axxora** <https://www.axxora.com/product-listing/>

**Devices**

|  |  |  |  |
| --- | --- | --- | --- |
| **Supplier**  | **Cat.no** | **Description**  | **Relevance**  |
| Miltenyi  | 130-103-931 | MACSQuant® Tyto® Cell Sorter | Sorting infectious material in a close system without any contamination. |
| Miltenyi  | 130-095-937 | [GentleMACS Dissociator](https://www.miltenyibiotec.com/UN-en/products/macs-sample-preparation/tissue-dissociators-and-tubes.html) | Single-cell suspensions and homogenates from virus-containing samples in sterile tubes. |
| Nexcelom  | 200-BFFL-5c | Celigo Imaging Cytometer | Image Cytometry for Vaccine Development.Automation of Viral Infectivity Assays at the Single Infected Cell Level. |

**For more information on the products, please enter the following links per supplier:**

**Miltenyi** <https://www.miltenyibiotec.com/UN-en/lp/assisting-researchers-in-their-work-addressing-viral-threats.html>

**Nexcelom** <https://www.nexcelom.com/virus-vaccine-development/>

**Synthego - CRISPR diagnostic for Screening and Target ID –**

CRISPR diagnostics leverages the targeting power of CRISPR guide RNAs with or **without** the DNA cutting power of Cas enzymes.

In CRISPR diagnostics, CRISPR-Cas components are modified to emit a color or fluorescent signal in response to positive or negative detection of the target genetic sequence (DNA/RNA), usually indicative of a disease state.

**Resources for CRISPER diagnostics methods:**

<https://www.synthego.com/blog/sherlock-crispr-diagnostics>

<https://www.synthego.com/blog/crispr-diagnostics-mammoth-biosciences>

<https://www.synthego.com/blog/crispr-electronic-biosensor>

<https://www.ncbi.nlm.nih.gov/pubmed/31097816>

**Active motif -Press release**

Active Motif clones, sequences and expresses the first full human antibody derived from patients infected with the 2019 Coronavirus COVID-19. <https://www.activemotif.com/covid-pr>