

Coronavirus Products

QC for Molecular and Antigen-Based Testing

Coronaviruses (CoV) are common throughout the world and are part of a large family of viruses that cause illnesses ranging from the common cold to Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS).

ZeptoMetrix offers developers and laboratories with safe-to-use, external quality controls/panels for assay development and/or research and analytical studies.

- NATrol™ molecular controls are non-infectious, ready-to-use, whole organisms which are designed to evaluate performance of molecular tests. They can be used for verification of assays, training of laboratory personnel and to monitor assay-kit lot performance.
- UV-inactivated viral culture fluids are designed for antigen based analytical testing.
- Heat-inactivated viral culture fluids are designed for molecular based testing.
- Purified heat-inactivated lysates are intended for research, product development, manufacturing, and quality assurance testing. Viral lysates can be used as an antigen, as a source for the purification of viral proteins, or in assays for the detection of viral antibodies.

Organism / Strain	Part Number	Product Description	Use*
SARS-CoV-2			
Multiple Target/Variant Panels			
Coronavirus 229E, Coronavirus HKU-1, Coronavirus NL63, Coronavirus OC43, SARS-CoV-2: USA-WA1/20204, Adenovirus 3, B. pertussis, C. pneumoniae, Influenza A 2009 H1N1pdm, Influenza A H1N1, Influenza A H3N2, Influenza B, M. pneumoniae, Metapneumovirus 8, Parainfluenza virus 1, Parainfluenza virus 2, Parainfluenza virus 3, Parainfluenza virus 4, Rhinovirus 1A, RSV A, Negative	NATRVP2-QIA	NATrol Respiratory Verification Panel 2 (21 x 0.25 mL) <i>Qualitative controls</i>	RUO
SARS-CoV-2: USA-WA1/2020, Coronavirus 229E, Coronavirus HKU-1, Coronavirus NL63, Coronavirus OC43, Adenovirus 1, Adenovirus 3, Adenovirus 31, B. paraptussis, B. pertussis, C. pneumoniae, Influenza A 2009 H1N1pdm, Influenza AH1, M. pneumoniae, Parainfluenza 1, Parainfluenza 4, Rhinovirus 1A, Influenza B, Parainfluenza 2, Parainfluenza 3, RSV A, Influenza A H3N2, Metapneumovirus 8, Negative	NATRVP2.1-BIO	NATrol Respiratory Verification Panel 2.1 (24 x 0.6 mL) <i>Qualitative controls</i>	RUO
SARS-CoV-2: USA-WA1/2020, Coronavirus 229E, Coronavirus HKU-1, Coronavirus NL63, Coronavirus OC43, Adenovirus 1, Adenovirus 3, Adenovirus 31, B. paraptussis, B. pertussis, C. pneumoniae, Influenza A 2009 H1N1pdm, Influenza AH1, M. pneumoniae, Parainfluenza 1, Parainfluenza 4, Rhinovirus 1A, Influenza B, Parainfluenza 2, Parainfluenza 3, RSV A, Influenza A H3N2, Metapneumovirus 8, Negative	NATRPC2.1-BIO	NATrol Respiratory Panel 2.1 Controls (12 x 0.3 mL) <i>Qualitative controls</i>	RUO
Alpha (B.1.1.7) England/204820464/2020; Beta (B.1.351) South Africa/KRISP-K005325/2020; Delta (B.1.617.2) USA/PHC658/2021; Gamma (P.1) Japan/TY7-503/2021	NATSARS(COV2)-VP	NATrol SARS-CoV-2 Variant Panel (4 x 0.5mL) Target concentration: 50,000 copies/mL <i>Quantitative controls</i>	RUO
Omicron B.1.1.529			
B.1.1.529 BA.1: Isolate: USA/MD-HP20874/2021	NATCOV2(OMC)-ERC	NATrol SARS-CoV-2 Omicron External Run Control (6 x 0.5 mL) Target concentration: 50,000 copies/mL	RUO
B.1.1.529 BA.1: Isolate: USA/MD-HP20874/2021	0810642CFHI	SARS-CoV-2 Omicron Heat-Inactivated CF (1 mL)	RUO
B.1.1.529 BA.1: Isolate: USA/MD-HP20874/2021	0810642UV	SARS-CoV-2 Omicron UV-Inactivated CF (1 mL)	RUO
B.1.1.529 BA.2 <i>Coming soon!</i>	0810643CFHI	SARS-CoV-2 Omicron Heat-Inactivated CF (1 mL)	RUO
B.1.1.529 BA.2 <i>Coming soon!</i>	0810643UV	SARS-CoV-2 Omicron UV-Inactivated CF (1 mL)	RUO
USA-WA1/2020			
SARS-COV-2: USA-WA1/2020, Influenza A: A/Brisbane/10/07, Influenza B: B/Florida/02/06, RSVB: CH93(18)-18	NATFRC-6C	NATrol Flu/RSV/SARS-CoV-2 Positive Control (6 x 0.5 mL) <i>To be used with NATCV9-6C</i>	RUO
Isolate: USA-WA1/2020	NATSARS(COV2)-ST	NATrol SARS-CoV-2 Stock Target concentration: 1,000,000 copies/mL	RUO
Isolate: USA-WA1/2020	NATSARS(COV2)-ERC	NATrol SARS-CoV-2 External Run Control (6 x 0.5 mL) Target concentration: 50,000 copies/mL	RUO
Isolate: USA-WA1/2020	0810587	SARS-CoV-2 Lysate (1 mg)	RUO
Isolate: USA-WA1/2020	0810587-0.5mg	SARS-CoV-2 Lysate (0.5 mg)	RUO
Isolate: USA-WA1/2020	0810587CFHI-0.5mL	SARS-CoV-2 Heat-Inactivated CF (0.5 mL)	RUO
Isolate: USA-WA1/2020	0810587CFHI	SARS-CoV-2 Heat-Inactivated CF (1 mL)	RUO
Isolate: USA-WA1/2020	0810587UV	SARS-CoV-2 UV-Inactivated CF (1 mL)	RUO

*IVD/CE = In Vitro Diagnostic and CE marked; RUO = Research Use Only

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SARS-CoV-2 (continued)			
Italy-INMI1			
Isolate: Italy-INMI1	0810589CFHI	SARS-CoV-2 Heat-Inactivated CF (1 mL)	RUO
Isolate: Italy-INMI1	0810589UV	SARS-CoV-2 UV-Inactivated CF (1 mL)	RUO
Hong Kong/VM20001061/2020			
Isolate: Hong Kong/VM20001061/2020	0810590CFHI	SARS-CoV-2 Heat-Inactivated CF (1 mL)	RUO
Isolate: Hong Kong/VM20001061/2020	0810590UV	SARS-CoV-2 UV-Inactivated CF (1 mL)	RUO
USA/NY-Wadsworth-103677-01/2020			
B.1_2020: Isolate: USA/NY-Wadsworth-103677-01/2020	0810621CFHI	SARS-CoV-2 Heat-Inactivated CF (1 mL)	RUO
B.1_2020: Isolate: USA/NY-Wadsworth-103677-01/2020	0810621UV	SARS-CoV-2 UV-Inactivated CF (1 mL)	RUO
USA/NY-Wadsworth-33126-01/2020			
B.1.595_2020: Isolate: USA/NY-Wadsworth-33126-01/2020	0810622CFHI	SARS-CoV-2 Heat-Inactivated CF (1 mL)	RUO
B.1.595_2020: Isolate: USA/NY-Wadsworth-33126-01/2020	0810622UV	SARS-CoV-2 UV-Inactivated CF (1 mL)	RUO
Alpha B.1.1.7			
B.1.1.7: Isolate: England/204820464/2020	NATSARS(COV2-UK)-ST	NATtrol SARS-CoV-2 Alpha Stock (1 mL) <i>Target concentration: 1,000,000 copies/mL</i>	RUO
B.1.1.7: Isolate: England/204820464/2020	0810614CFHI	SARS-CoV-2 Alpha Heat-Inactivated CF (1 mL)	RUO
B.1.1.7: Isolate: England/204820464/2020	0810614UV	SARS-CoV-2 Alpha UV-Inactivated CF (1 mL)	RUO
B.1.1.7: Isolate: USA/CA_CDC_5574/2020	0810612CFHI	SARS-CoV-2 Alpha Heat-Inactivated CF (1 mL)	RUO
B.1.1.7: Isolate: USA/CA_CDC_5574/2020	0810612UV	SARS-CoV-2 Alpha UV-Inactivated CF (1 mL)	RUO
Beta B.1.351			
B.1.351: Isolate: South_Africa/KRISP-K005325/2020	NATSARS(COV2-SA)-ST	NATtrol SARS-CoV-2 Beta Stock (1 mL) <i>Target concentration: 1,000,000 copies/mL</i>	RUO
B.1.351: Isolate: South_Africa/KRISP-K005325/2020	0810613CFHI	SARS-CoV-2 Beta Heat-Inactivated CF (1 mL)	RUO
B.1.351: Isolate: South_Africa/KRISP-K005325/2020	0810613UV	SARS-CoV-2 Beta UV-Inactivated CF (1 mL)	RUO
Gamma P1			
P1: Isolate: Japan/TY7-503/2021	0810616CFHI	SARS-CoV-2 Gamma Heat-Inactivated CF (1 mL)	RUO
P1: Isolate: Japan/TY7-503/2021	0810616UV	SARS-CoV-2 Gamma UV-Inactivated CF (1 mL)	RUO
P1_2021: Isolate: NY-Wadsworth-21033899-01/2021	0810617CFHI	SARS-CoV-2 Gamma Heat-Inactivated CF (1 mL)	RUO
P1_2021: Isolate: NY-Wadsworth-21033899-01/2021	0810617UV	SARS-CoV-2 Gamma UV-Inactivated CF (1 mL)	RUO
Zeta P2			
P2_2021: Isolate: NY-Wadsworth-21006055-01/2021	0810618CFHI	SARS-CoV-2 Zeta Heat-Inactivated CF (1 mL)	RUO
P2_2021: Isolate: NY-Wadsworth-21006055-01/2021	0810618UV	SARS-CoV-2 Zeta UV-Inactivated CF (1 mL)	RUO
Iota B.1.526			
B.1.526_2021: Isolate: USA/NY-Wadsworth-21025952-01/2021 Isolate 1	0810619CFHI	SARS-CoV-2 Iota Heat-Inactivated CF (1 mL)	RUO
B.1.526_2021: Isolate: USA/NY-Wadsworth-21025952-01/2021 Isolate 1	0810619UV	SARS-CoV-2 Iota UV-Inactivated CF (1 mL)	RUO
B.1.526_2021: Isolate: USA/NY-Wadsworth-21018781-01/2021 Isolate 2	0810620CFHI	SARS-CoV-2 Iota Heat-Inactivated CF (1 mL)	RUO
B.1.526_2021: Isolate: USA/NY-Wadsworth-21018781-01/2021 Isolate 2	0810620UV	SARS-CoV-2 Iota UV-Inactivated CF (1 mL)	RUO
Kappa B.1.617.1			
B.1.617.1: Isolate: USA/CA-Stanford-15_S02/2021	0810623CFHI	SARS-CoV-2 Kappa Heat-Inactivated CF (1 mL)	RUO
B.1.617.1: Isolate: USA/CA-Stanford-15_S02/2021	0810623UV	SARS-CoV-2 Kappa UV-Inactivated CF (1 mL)	RUO
Delta B.1.617.2			
B.1.617.2: Isolate: USA/PHC658/2021	0810624CFHI	SARS-CoV-2 Delta Heat-Inactivated CF (1 mL)	RUO
B.1.617.2: Isolate: USA/PHC658/2021	0810624UV	SARS-CoV-2 Delta UV-Inactivated CF (1 mL)	RUO
Negative Controls			
Coxsackievirus A9	NATCV9-6C	NATtrol Flu/RSV/SARS-CoV-2 Negative Control (6 x 0.5 mL) <i>To be used with NATFRC-6C</i>	RUO
VeroE6 cells	0820010CFHI	SARS-CoV-2 Heat-Inactivated CF Negative control (1 mL)	RUO
A-549 cells	NATSARS(COV2)-NEG	NATtrol Negative Control (6 x 0.5 mL) <i>Target concentration: 50,000 cells/mL</i>	RUO
A-549 cells	NATSARS(COV2)-NEG1	NATtrol Negative Control (6 x 1.0 mL) <i>Target concentration: 50,000 cells/mL</i>	RUO
SARS			
2003-00592	NATSARS-ST	NATtrol Coronavirus Stock (1 mL)	RUO

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Organism / Strain	Part Number	Product Description	Use*
Seasonal Coronavirus			
229E			
229E	NATCOV (229E)-ST	NATtrol Coronavirus Stock (1 mL) <i>Target concentration Ct range: 22–25</i>	RUO
229E	0810229CF	Coronavirus CF (1 mL)	RUO
229E	0810229CFHI	Coronavirus Heat-Inactivated CF (1 mL)	RUO
229E	0810229UV	Coronavirus UV-Inactivated CF (1 mL)	RUO
229E	0810229	Coronavirus Lysate (1 mg)	RUO
NL63			
NL63	NATCOV(NL63)-ST	NATtrol Coronavirus Stock (1 mL) <i>Target concentration Ct range: 22–25</i>	RUO
NL63	0810228CF	Coronavirus CF (1 mL)	RUO
NL63	0810228CFHI	Coronavirus Heat-Inactivated CF (1 mL)	RUO
NL63	0810228UV	Coronavirus UV-Inactivated CF (1 mL)	RUO
NL63	0810228	Coronavirus Lysate (1 mg)	RUO
OC43			
OC43	0810024CF	Coronavirus CF (1 mL)	RUO
OC43	0810024CFHI	Coronavirus Heat-Inactivated CF (1 mL)	RUO
OC43	0810024	Coronavirus Lysate (1 mg)	RUO
MERS-CoV			
Florida/USA-2_Saudi Arabia_2014	NATMERS-ST	NATtrol MERS-CoV Stock (1 mL) <i>Target concentration Ct range: 22–28</i>	RUO
Florida/USA-2_Saudi Arabia_2014 <i>US sales only</i>	0810575CFHI	MERS-CoV Heat-Inactivated CF (1 mL)	RUO

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