

# COVID-19 Vaccine & Drug Research and Development

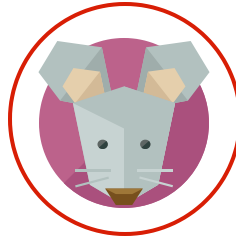
## Continuous Monitoring of Animal Models with Blood Chemistry Analysis

According to the US FDA's criteria on COVID-19 vaccine approval, the vaccine must be at least 50% more effective than the placebo in either laboratory-confirmed COVID-19 or laboratory-confirmed SARS-CoV-2 infection. In addition, one of the following two criteria must be met: **reduction of disease severity or reduction of the SARS-CoV-2 infection.\***



### 1 Where

Preclinical research studies are taking place at **research institutions, universities, CROs, biopharma and government research facilities.**



### 2 Who

**Ferrets, pigs, monkeys, and transgenic mice** are all being used for testing. When exposed to the SARS-CoV-2 virus, they show severe symptoms of COVID-19, similar to those of humans.

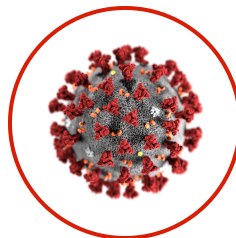


### 3 What

These animals are being tested for **COVID-19 vaccines, monoclonal antibodies, as well as existing and novel antiviral and anti-inflammatory drugs.**

### 5 How

The **inflammation, cardiovascular, renal, and hepatic functions of the animals, as well as their viral titers and neutralizing antibodies, are being closely monitored** throughout these critical preclinical studies.



### 4 Why



Scientists are screening thousands of vaccine and drug candidates in animals to **compare and identify ones with the best efficacy and safety margins for their clinical trials** in a large population.

## ALFA WASSERMANN COVID-19 REAGENT PANEL

Alfa Wassermann offers a variety of assays for animal health monitoring of liver, kidney, and cardiovascular functions for use on the ACE Axcel and ACE Alera Clinical Chemistry Systems.

Alanine Aminotransferase (ALT)  
Albumin (ALB)  
Aspartate Aminotransferase (AST)  
Creatine Kinase (CK)  
Creatinine (CREAT)  
Ferritin (FERITN)  
Lactate Dehydrogenase (LDH)  
Total Bilirubin (TBILI)

See reverse side for ordering information.

# ALFA WASSERMANN COVID-19 REAGENT PANEL

Alfa Wassermann offers the following assays for animal health monitoring of liver, kidney, and cardiovascular functions for use on the ACE Axcel and ACE Alera Clinical Chemistry Systems:

Reagent Name	Item #	Kit Size
Alanine Aminotransferase (ALT)	SA1052	450 Tests/Kit
Albumin (ALB)	SA2001	400 Tests/Kit
Aspartate Aminotransferase (AST)	RX1053	200 Tests/Kit
Aspartate Aminotransferase (AST)	SA1053	450 Tests/Kit
Creatine Kinase (CK)	RX2011	300 Tests/Kit
Creatine Kinase (CK)	SA2011	750 Tests/Kit
Creatinine (CREAT)	RX1012	186 Tests/Kit
Creatinine (CREAT)	SA1012	560 Tests/Kit
Ferritin (FERITN)	ACI-32	90 Tests/Kit
Lactate Dehydrogenase (LDH)	SA3018	330 Tests/Kit
Total Bilirubin (TBILI)	SA1008	300 Tests/Kit

To view the full product offering, please reference the Alfa Wassermann Product Catalog.

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Contact your local Business Development Manager for ordering information.