

Sero logical Comparator Algorithm Result as the reference method		
INSTI COVID-19 Results	Reactive (n)	Negative (n)
Total	44	2
	46	123
	Positive Rate (%) [95%CI]	True Negative Rate (%) [95%CI]
	95.6% [85.5-98.8%]	98.4% [94.3-99.6%]

Interfering Substances

The effect of the following pharmaceutical compounds and endogenous substances on assay was tested. Interference was tested up to the listed concentration and no impact on results was observed.

Pharmaceutical Compounds	Maximum concentration tested*
Colistimeth sodium	0.398 mg/mL
Acetaminophen	11.1 µg/mL
Macropenam	0.338 mg/mL
Tetracycline	33.0 µg/mL
Acetylsalicylic acid	30.0 µg/mL
Hydrocortisone	0.16 mg/mL
Ibuprofen	0.219 mg/mL
Enalapril	0.819 µg/mL
Nifedipine	0.588 µg/mL
Atorvastatin	12.0 µg/mL
Warfarin	0.04 mg/mL
Rabeprazole	5.40 µg/mL
Hydroxychloroquine sulfate	0.84 mg/mL
Ritonavir	53.0 µg/mL
Lopinavir	2.0 µg/mL
Endogenous Substances	Maximum concentration tested*
Hemoglobin	10 mg/mL
Bilirubin, conjugated	0.4 mg/mL
Bilirubin, unconjugated	0.4 mg/mL
Cholesterol	4.0 mg/mL
Total Protein	60 mg/mL
Intact IgM	20.5 mg/mL
IgG	6 mg/mL

Analytical Specificity

Out of 72 potentially cross-reactive samples, no samples showed reactivity in the INSTI COVID-19 Antibody Test, resulting in an overall specificity in this cohort of 100%. The following are conditions tested.

Indication	Number of Unique Samples	Non- Reactive	Reactive
Human coronavirus 229E*	10	10	0
Human coronavirus OC43*	9	9	0
Human coronavirus HKU1*	6	6	0
Human coronavirus NL63*	6	6	0
Influenza Vaccination	5	5	0
Influenza B**	13	13	0
<i>H. influenzae</i> **	17	17	0
Respiratory Syncytial Virus (RSV)**	15	15	0
Adenovirus 14**	18	18	0
Adenovirus**	8	8	0
Enterovirus**	7	7	0
<i>M. pneumoniae</i> **	17	17	0
<i>Legionella</i> **	5	5	0
<i>C. pneumoniae</i> **	13	13	0
Acute bacterial pneumonia**	18	18	0
Anti-nuclear Antibody	7	7	0
Rheumatoid Factor	5	5	0
Progesterone	5	5	0
Pregnancy (3 rd Trimester)	5	5	0
Multiparous Women	6	6	0

*Reference strains used in the assay. **Reference strains used with multiple species of the coronavirus.

BIBLIOGRAPHY

- Fair AR, Peifman S. Coronaviruses: an overview of their replication and pathogenesis. *Methods Mol Biol.* 2015;1282:1-23. doi:10.1007/978-1-4939-2438-7_1
- Wang W, Peng P, Wu Y, et al. Detection of SARS-CoV-2 in different specimens. *N Engl J Med.* 2020;383:1414-1417. doi:10.1056/NEJL2005181
- Widman M, Coutin-Frankel J, Kaiser J, Malinck C. How does coronavirus sRFP? Clinicians trace a ferocious rampage through the body, from brain to toes. doi:10.1126/science.abc3208
- Centers for Disease Control and Prevention (CDC). Universal Precautions for prevention of transmission of bloodborne pathogens and other bloodborne pathogens in health-care settings. *MMWR* 1988; 37(24):377-388.

TECHNICAL INFORMATION

For further information or assistance, contact the Technical Services at 1-804-644-4677.

Reference herein to any specific third party by name, trade name, trademark, manufacturer or service mark, or to any specific product or service, is for identification purposes only and does not constitute an endorsement or approval of the products or services of such third party by Biolytical or that such products or services are necessarily best suited for the intended purpose.

Sterilization using irradiation

Lot number

Catalogue Number

Manufacturer

Use By Date

Contains sufficient for <p> tests

Membrane Unit

Alcohol swab

Store at 2°C to 30°C

Caution

Harmful if swallowed device

In Vitro diagnostic medical device

Do not reuse

Consult Package Insert

CE Mark

Solution bottles 1,2,3

Lancet

Pipette

EC REP

Garsel EC-REP BV

2440 Geel

Belgium

51-19.11.F. 11, Mar 2021

© Copyright 2021. All rights reserved.



biolytical
LABORATORIES

biolytical Laboratories, Inc.

Richmond, BC, Canada V6V 2A2

Phone: +1 604-204-6784

Fax: +1 604-244-8399

www.biolytical.com