



READY TO HELP

Coronavirus (2019-nCoV)

Biology

- Enveloped RNA virus with non-segmented genome
- Biosafety-Security-Level 2
- Wuhan coronavirus sequence: <https://www.ncbi.nlm.nih.gov/genbank/2019-ncov-seqs/>

Inactivation with DNA/RNA Shield

- Yes, 2019-nCoV will be inactivated, sample safe for shipment
- DNA/RNA Shield reagent fulfils EN 14476:2017 regulations that are more stringent than the existing recommendations for Coronavirus 2019-nCoV.
(Test-Report available on request)
- RNA genome will be protected for a minimum of 30 days at ambient temperature

SAFE, ROOM-TEMPERATURE SAMPLE TRANSPORT AND SAMPLE PROCESSING

Specimen	Recommended Collection Device	RNA Purification
Nasopharyngeal or oropharyngeal aspirates or washes	DNA/RNA Shield (3:1)	Quick-RNA Viral Kits
Serum	DNA/RNA Shield (3:1)	Quick-RNA Viral Kits
Bronchoalveolar lavage	DNA/RNA Shield (3:1)	Quick-RNA Viral Kits
Tracheal aspirates	DNA/RNA Shield (3:1)	Quick-RNA Viral Kits
Nasopharyngeal or oropharyngeal swabs	DNA/RNA Shield Collection Tube w/ Swab	Quick-RNA Viral Kits
Blood	DNA/RNA Shield Blood Tube	Quick-RNA Viral Kits
Saliva	DNA/RNA Shield Saliva Collection Kit	Quick-RNA Viral Kits
Stool	DNA/RNA Shield Fecal Collection Tube	Quick RNA Viral Kits
Sputum	DNA/RNA Shield Saliva Collection Kit	Quick RNA Miniprep Plus



Product	Catalog #
DNA/RNA Shield	R1100-50, R1100-250
Swab collection tubes	R1106, R1107, R1108, R1109
Blood tube	R1150
Saliva collection kit	R1210
Fecal collection tubes	R1101
Quick-RNA Viral kits	R1034, R1035, R1040, R1041, R2140, R2141
Quick-RNA Miniprep Plus	R1057, R1058

WWW.ZYMORESEARCH.DE/PAGES/DNA-RNA-SHIELD

Relevant citations:

Horsington, J., Eschbauer, M., Singanallur, N. B., & Vosloo, W. (2020). Inactivation of foot-and-mouth disease virus in epithelium samples for safe transport and processing in low-containment laboratories. *Journal of virological methods*, 276, 113770.

Tan, S. K., Sahoo, M. K., Milligan, S. B., Taylor, N., & Pinsky, B. A. (2017). Stability of Zika virus in urine: Specimen processing considerations and implications for the detection of RNA targets in urine. *Journal of virological methods*, 248, 66-70. doi: 10.1016/j.jviromet.2017.04.018

Kolawole, O., Oguntoye, M., Dam, T. et al. Etiology of respiratory tract infections in the community and clinic in Ilorin, Nigeria. *BMC Res Notes* 10, 712 (2017). <https://doi.org/10.1186/s13104-017-3063-1>

Kolodziejek J, Seidel B, Jungbauer C, et al. West Nile virus positive blood donation and subsequent entomological investigation, Austria, 2014. *PLoS One*. 2015;10(5):e0126381. Published 2015 May 11. doi:10.1371/journal.pone.0126381

Nowotny N, Kolodziejek J. Middle East respiratory syndrome coronavirus (MERS-CoV) in dromedary camels, Oman, 2013. *Euro Surveill*.2014;19(16):pii=20781. <https://doi.org/10.2807/1560-7917.ES2014.19.16.20781>