

MACHEREY-NAGEL

Reference list

Viral nucleic acid isolation from wastewater samples

- Detection of SARS-CoV-2 from wastewater samples
- Overview of MN Kits reported in the literature

Reference list - Viral nucleic acid isolation from wastewater samples

MACHEREY-NAGEL's latest references for Covid-19 and viral nucleic acid isolation from wastewater samples

Thank you for your interest in MACHEREY-NAGEL products!

For detailed guidance on using MACHEREY-NAGEL kits with environmental samples, our technical support team is ready to assist you. Additionally, we offer a comprehensive and up-to-date list of literature to provide scientific context and references that help you achieve reliable results.

If you have any questions or want more information, please do not hesitate to reach out to our technical support team at support@mn-net.com

SARS-CoV-2 related publications from wastewater

Featured Product	Application	Author	Article	Year	Journal
NucleoSpin® RNA Virus	Viral RNA isolation from wastewater	Islam et al.	An opinion on Wastewater-Based Epidemiological Monitoring (WBEM) with Clinical Diagnostic Test (CDT) for detecting high-prevalence areas of community COVID-19 infections	2023	Environmental Science & Health
	Viral RNA isolation from wastewater	Ciannella et al.	Recent progress on wastewater-based epidemiology for COVID-19 surveillance: A systematic review of analytical procedures and epidemiological modeling	2023	Science of The Total Environment
	Viral RNA isolation from wastewater	Lucansky et al.	Comparison of the methods for isolation and detection of SARS-CoV-2 RNA in municipal wastewater	2023	Frontiers Public Health
	Viral RNA isolation from wastewater	Rusková et al.	Useful molecular tools for facing next pandemic events: Effective sample preparation and improved RT-PCR for highly sensitive detection of SARS-CoV-2 in wastewater environment	2022	International Journal of Hygiene and Environmental Health
	Viral RNA isolation from wastewater	Ferrando et al.	Monitoring Human Viral Pathogens Reveals Potential Hazard for Treated Wastewater Discharge or Reuse	2022	Frontiers in Microbiology
	Viral RNA isolation from wastewater	Kolarević et al.	Wastewater-based epidemiology in countries with poor wastewater treatment — Epidemiological indicator function of SARS-CoV-2 RNA in surface waters	2022	Science of The Total Environment
	Viral RNA isolation from wastewater	Josi et al.	Genetic sequencing detected the SARS-CoV-2 delta variant in wastewater a month prior to the first COVID-19 case in Ahmedabad (India)	2022	Environmental Pollution
	Viral RNA isolation from wastewater	Colosi et al.	Development of Wastewater Pooled Surveillance of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) from Congregate Living Settings	2021	ASM Journals
	Viral RNA isolation from wastewater	Davo et al.	Early detection of SARS-CoV-2 infection cases or outbreaks at nursing homes by targeted wastewater tracking	2021	Clinical Microbiology of Infection
	Viral RNA isolation from wastewater	Cataluna et al.	Comparing analytical methods to detect SARS-CoV-2 in wastewater	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Sri-vastava et al.	Reflections of COVID-19 cases in the wastewater loading of SARS-CoV-2 RNA: A case of three major cities of Gujarat, India	2021	Case Studies in chemical and Environmental Engineering
	Viral RNA isolation from wastewater	Kumar et al.	Wastewater surveillance-based city zonation for effective COVID-19 pandemic preparedness powered by early warning: A perspective of temporal variations in SARS-CoV-2-RNA in Ahmedabad, India	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Wilder et al.	Co-quantification of crAssphage increases confidence in wastewater-based epidemiology for SARS-CoV-2 in low prevalence areas	2021	Water Research X
	Viral RNA isolation from wastewater	Kumar et al.	First comparison of conventional activated sludge versus root-zone treatment for SARS-CoV-2 RNA removal from wastewaters: Statistical and temporal significance	2021	Chemical Engineering Journal
	Viral RNA isolation from wastewater	Sapula et al.	An optimized and robust PEG precipitation method for detection of SARS-CoV-2 in wastewater	2021	Science of The Total Environment

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Featured Product	Application	Author	Article	Year	Journal
NucleoSpin® RNA Virus	Viral RNA isolation from wastewater	Hata et al.	Detection of SARS-CoV-2 in wastewater in Japan during a COVID-19 out-break	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Kolarevic et al.	Detection of SARS-CoV-2 RNA in the Danube River in Serbia associated with the discharge of untreated wastewaters	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Polo et al.	Detection of SARS-CoV-2 RNA in bivalve mollusks and marine sediments	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Kumar et al.	Unravelling the early warning capability of wastewater surveillance for COVID-19: A temporal study on SARS-CoV-2 RNA detection and need for the escalation	2021	Environmental Research
	Viral RNA isolation from wastewater	Fernandez et al.	Detection of environmental SARS-CoV-2 RNA in a high prevalence setting in Spain	2021	Transboundary and Emerging Diseases
	Viral RNA isolation from wastewater	Carcerny et al.	Monitoring emergence of SARS-CoV-2 B.1.1.7 Variant through the Spanish National SARS-CoV-2 Wastewater Surveillance System (VATar COVID-19) from December 2020 to March 2021	2021	ACS ES&T Water
	Viral RNA isolation from wastewater	Kumar et al.	Decay of SARS-CoV-2 RNA along the wastewater treatment outfitted with Upflow Anaerobic Sludge Blanket (UASB) system evaluated through two sample concentration techniques	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Alygizakis et al.	Analytical methodologies for the detection of SARS-CoV-2 in wastewater: Protocols and future perspectives	2020	TrAC Trends in Analytical Chemistry
	Viral RNA isolation from wastewater	Ferrando et al.	Recovering coronavirus from large volumes of water	2020	Science of The Total Environment
	Viral RNA isolation from wastewater	Yaniv et al.	City-level SARS-CoV-2 sewage surveillance	2020	Chemosphere
	Viral RNA isolation from wastewater	Ali et al.	Tracking SARS-CoV-2 RNA through the wastewater treatment process	2020	CS ES&T Water
	Viral RNA isolation from wastewater	Patel et al.	Coronavirus (SARS-CoV-2) in the environment: Occurrence, persistence, analysis in aquatic systems and possible management	2020	Science of The Total Environment
	Viral RNA isolation from wastewater	Colosi et al.	Development of wastewater pooled surveillance of SARS-CoV-2 from congregate living settings	2020	ASM Journals
	Viral RNA isolation from wastewater	Westhaus et al.	Detection of SARS-CoV-2 in raw and treated wastewater in Germany- suitable for COVID-19 surveillance and potential transmission risk	2020	Science of The Total Environmen
	Viral RNA isolation from wastewater	Randazzo et al.	SARS-CoV-2 RNA in wastewater anticipated COVID-19 occurrence in a low prevalence area	2020	Water Research X
Viral RNA isolation from wastewater	Kumar et al.	First proof of the capability of wastewater surveillance for COVID-19 in India through detection of genetic material of SARS-CoV-2	2020	Science of The Environment	
Viral RNA isolation from wastewater	Trottier et al.	Post-lockdown detection of SARS-CoV-2 RNA in the wastewater of Mont-pellier, France	2020	One Health	

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NucleoSpin® RNA	Viral RNA isolation from wastewater	Yaniv et al.	Direct RT-qPCR assay for SARS-CoV-2 variants of concern (Alpha, B.1.1.7 and Beta, B.1.351) detection and quantification in wastewater	2020	Environmental Research
	Viral RNA isolation from wastewater	Reyes-Calderon et al.	Evaluation of low-cost SARS-CoV-2 RNA purification methods for viral quantification by RT-qPCR and next-generation sequencing analysis: Implications for wider wastewater-based epidemiology adoption	2023	Heliyon
NucleoSpin® RNA Stool	Viral RNA isolation from wastewater	Safford et al.	Wastewater-Based Epidemiology for COVID-19: Handling qPCR Non-detects and Comparing Spatially Granular Wastewater and Clinical Data Trends	2022	ACS ES&T Water
	Viral RNA isolation from wastewater	Bar-Or et al.	Regressing SARS-CoV-2 Sewage Measurements Onto COVID-19 Burden in the Population: A Proof-of-Concept for Quantitative Environmental Surveillance	2022	Frontiers Public Health
	Viral RNA isolation from wastewater	Billoud et al.	Monitoring of SARS-CoV-2 RNA in wastewater as an epidemiological surveillance tool in Mendoza, Argentina	2021	Science of The Total Environment
	Viral RNA isolation from wastewater	Schang et al.	Passive Sampling of SARS-CoV-2 for Wastewater Surveillance	2021	Environmental Science Technology
NucleoMag® Pathogen	Viral RNA isolation from wastewater	Pecson et al.	Reproducibility and sensitivity of 36 methods to quantify the SARS-CoV-2 genetic signal in raw wastewater: findings from an interlaboratory methods evaluation in the U.S	2021	Royal society of Chemistry
	Viral RNA isolation from wastewater	Volkoff et al.	Demonstrated SARS-CoV-2 Surface Disinfection Using Ozone	2021	Science and Engineering
NucleoMag® DNA/RNA Water	Viral RNA isolation from wastewater	Masindi et al.	Systematic assessment of SARS-CoV-2 virus in wastewater, rivers and drinking water – A catchment-wide appraisal	2021	Science of The Total Environment



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ISO 9001:2015



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