



Dec 02, 2021

5N HCl

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¹FDA

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dx.doi.org/10.17504/protocols.io.byfsptne

GenomeTrakr

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This method was developed at the FDA's Center for Food Safety and Applied Nutrition for GenomeTrakr's pandemic response project, monitoring SARS-CoV-2 variants in wastewater. Protocols developed for this project cover wastewater collection, concentration, RNA extraction, RT-qPCR detection, library prep, genome sequencing, quality control checks, and data submission to NCBI. This method provides a reagent formula required in the rapid concentration of intact viruses from wastewater using a combination of PEG precipitation and ultracentrifugation.

DOI

dx.doi.org/10.17504/protocols.io.byfsptne

Jacqueline.Woods 2021. 5N HCl. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.byfsptne>



protocol ,

Sep 21, 2021

Dec 02, 2021

Sep 21, 2021



Ruth Timme US Food and Drug Administration

Sep 23, 2021



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In steps of


[Virus Concentration from Wastewater Using PEG Precipitation and Ultracentrifugation](#)

 [Hydrochloric Acid \(HCl\)](#) **Fisher**

Scientific Catalog #6000710 Step 2

Deionized or ultrapure water

Sterile container (e.g., 50 ml conical tube, Fisher Scientific Cat # 14-432-22, or equivalent)

1 Measure  **14.6 mL** of deionized or ultrapure water into sterile container.

2  [Hydrochloric Acid \(HCl\)](#) **Fisher**

Slowly add  **10.4 mL** **Scientific Catalog #6000710**

or equivalent to the water.



This solution should be prepared under a chemical fume hood.

3 Store at  **Room temperature** .