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© 2X PEG

Jacquelina.Woods 1

¹FDA

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

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.

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Sep 17, 2021 Ruth Timme

US Food and Drug Administration

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In steps of

Virus Concentration from Wastewater Using PEG Precipitation and Ultracentrifugation



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Dissolve components in ~ **□700 mL** deionized or ultrapure water. Heating to § **50 °C** is recommended to facilitate dissolution.

15m

- 2 Bring total volume up to **1** L with deionized or ultrapure water.
- 3 Autoclave & 121 °C © 00:15:00.
- 4 Store at & Room temperature protected from light.