

Concentration of Virus Particles from Environmental Water and Wastewater Samples Using Skimmed Milk Flocculation and Ultrafiltration

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Materials

| Name | Company | Catalog Number | Comments |
|---|------------------------------------|----------------|---|
| 0.2 M sodium phosphate buffer with a pH 7.5 | Alfa Aesar | J62041AP | Fisher Scientific, Fair Lawn, NJ, USA |
| 0.2 µm 47-mm Supor-200 membrane disc filters | VWR | 66234 | Pall Corporation, Ann Arbor, MI |
| 0.45 µm 47-mm Supor-200 membrane disc filters | VWR | 60043 | Pall Corporation, Ann Arbor, MI |
| 4X TaqMan Fast Virus 1-Step Master Mix | Thermo Fisher Scientific | 4444432 | Life Technologies, Carlsbad, CA, USA |
| Armored RNA Quant IPC-1 Processing Control | Asuragen | 49650 | Asuragen, Austin, TX, USA |
| Brand A, Jumbosep Centrifugal Device, 30-kDa | Pall | OD030C65 | Pall Corporation, Ann Arbor, MI |
| Brand B, Microsep Advance Centrifugal Device, 30-kDa | Pall | MCP010C46 | Pall Corporation, Ann Arbor, MI |
| Centrifuge tubes (50 ml) | Nalgene | 3119-0050PK | Thermo Fisher Scientific |
| DNase I | Invitrogen | 18047019 | Thermo Fisher Scientific |
| Dyna Mag-2 | Invitrogen | 12027 | Thermo Fisher Scientific |
| GWV High Capacity Groundwater Sampling Capsules - 0.45 µm | Pall | 12179 | Pall Corporation, Ann Arbor, MI |
| Hydrochloric acid, 1N standard solution | Thermo Fisher Scientific | AC124210025 | Fisher Scientific, Fair Lawn, NJ, USA |
| MagMAX Microbiome Ultra Nucleic Acid Isolation Kit | Applied biosystems | A42358 | Thermo Fisher Scientific |
| Nuclease free water | Promega | P1197 | Promega Corporation, Fitchburg, WI, USA |
| Peristaltic pump | Masterflex, Cole-Parmer instrument | 7553-20 | Thermo Fisher Scientific |
| pH meter | Denver instrument | RK-59503-25 | Cole-Parmer. This product has been discontinued |

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| Phenol:chloroform:isoamyl alcohol 25:24:1 | Invitrogen | 15593031 | Fisher Scientific, Fair Lawn, NJ, USA |
| Primers and probe sets | IDT | | Integrated DNA Technologies, Inc., Coralville, IA, USA |
| Qiagen All-prep DNA/RNA power microbiome kit | Qiagen | | Qiagen Sciences, Inc., Germantown, MD, USA |
| QuantStudio 5 Real-Time PCR System | Thermo Fisher Scientific | A34322 | Life Technologies, Carlsbad, CA, USA |
| Qubit 1X dsDNA High Sensitivity (HS) assay kit | Invitrogen | Q33231 | Thermo Fisher Scientific |
| Qubit 4 Fluorometer, with WiFi | Invitrogen | Q33238 | Thermo Fisher Scientific |
| Qubit RNA High Sensitivity (HS) assay kit | Invitrogen | Q32855 | Thermo Fisher Scientific |
| RNAse A | Invitrogen | EN0531 | Thermo Fisher Scientific |
| RNeasy PowerMicrobiome Kit | Qiagen | 26000-50 | Qiagen Sciences, Inc., Germantown, MD, USA |
| Skim milk powder | Difco (BD Life Sciences) | DF0032173 | Fisher Scientific, Fair Lawn, NJ, USA |
| Sodium phosphate buffer | Alfa Aesar | | Alfa Aesar, Ottawa, ON, Canada |
| Synthetic seawater | VWR | RC8363-1 | RICCA chemical company |
| Synthetic single-stranded DNA gBlock | IDT | | Integrated DNA Technologies, Inc., Coralville, IA, USA |
| VacuCap 90 Vacuum Filtration Devices - 0.1 µm, 90 mm, gamma-irradiated | Pall | 4621 | Pall Corporation, Ann Arbor, MI |
| VacuCap 90 Vacuum Filtration Devices - 0.2 µm, 90 mm, gamma-irradiated | Pall | 4622 | Pall Corporation, Ann Arbor, MI |
| β-mercaptoethanol | Gibco | 21985023 | Fisher Scientific, Fair Lawn, NJ, USA |