

SARS-CoV-2 Wastewater Surveillance 4-plex Kit

Quantify SARS-CoV-2 (SC2) in wastewater with better accuracy using digital PCR

Features and Benefits

- Designed specifically for SARS-CoV-2 detection in wastewater
 - Tolerant to inhibition
 - Simultaneous detection of SARS-CoV-2 N1 and N2 targets alongside fecal normalization and process controls
- Easy one-step RT-dPCR workflow

Description

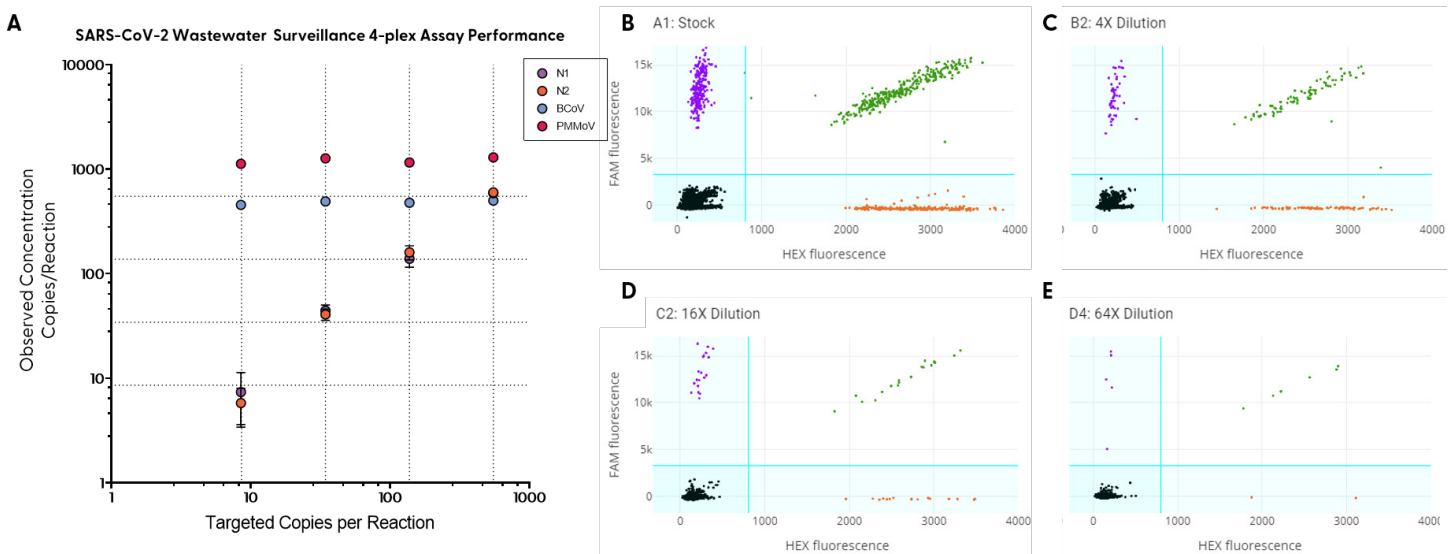
Designed for use on the Absolute Q® Digital PCR platform, the SARS-CoV-2 Wastewater Surveillance 4-plex assay is formulated specifically for monitoring of SARS-CoV-2 in wastewater. Leveraging the 4-color multiplexing capability of the Absolute Q, the assay quantifies N1 and N2 targets from SARS-CoV-2 along with Pepper Mild Mottle Virus (PMMoV) for human fecal control and Bovine Coronavirus (BCoV) as an integrated process control target all in a single reaction.



N1	SARS-CoV-2
N2	SARS-CoV-2
PMMoV	Human Fecal Control
BCoV	Process/Recovery Control

More Consistent and Accurate Wastewater Monitoring

Tracking SARS-CoV-2 levels in wastewater has been shown to be a useful predictor of potential outbreaks. However, for meaningful interpretation of SARS-Cov2 data, a normalization target is critical. The SARS-CoV-2 Wastewater Surveillance 4-plex assay utilizes the Pepper Mild Mottle Virus (PMMoV) as human fecal load control as recommended by the CDC.



Quantification of SARS-CoV-2 N1 and N2 targets down to single digits. A) Results from serial 4-fold dilutions of control SARS-CoV2 material in a constant background of BCoV and PMMoV control material. Two-dimensional partition scatters for the N1 (FAM) and N2 (HEX) targets across the RNA control material dilution using 2µL each of the (B) stock control material, (C) 4X dilution (D) 16X dilution and (E) 64X dilution.