**Eurofins COVID-19 Sentinel™ wastewater testing - a “Lead” indicator for SARS-CoV-2 outbreak**

Studies have established that wastewater can be used as a lead indicator of SARS-CoV-2 infection in a population. Regular and on-going monitoring of wastewater effluent can provide an early indication of an outbreak, possibly even while the population in question is asymptomatic but potentially contagious.

Several studies undertaken by Eurofins scientists have resulted in a robust method to analyze SARS-CoV-2 in wastewater samples which had been collected during the COVID-19 pandemic in Denmark. This test was able to detect the virus in a sample taken three days before patient 0 was identified in the country.

**Eurofins wastewater testing method:**

- Detects and confirms SARS-CoV-2 by targeting two genome sequences in accordance with WHO recommendations.

  - Is highly sensitive – Studies have shown that 1 infected person out of a community of over 1000 persons is detectable.

Wastewater sampling is a non-invasive and cost-effective mechanism to monitor the evolution of the SARS-CoV-2 pandemic. As part of the Eurofins Sentinel™ program, wastewater testing can be organized with minimal disruption. If this approach is used for individual companies or sites, frequent monitoring of wastewater provides an early indication of outbreak at a site and opportunity to mitigate spread amongst those on site and operational disruption.

Sampling using a Composite autosampler is recommended (e.g. Teledyne ISCO), which can be provided or alternatively, sourced separately from independent suppliers (hire or purchase). Eurofins provides the sub-sampling kit, (packaging, ice and return shipping label) and can assist in the sourcing of sampling equipment. Eurofins can arrange ‘turn-key’ sampling solutions if required.

Additionally, if your laboratory already has PCR testing capabilities, the VIRSeek SARS-CoV-2 test kits are available for direct purchase from Eurofins Technologies:

- VIRSeek RNA Extraction Kit
- VIRSeek SARS-CoV-2 Screening Kit
- VIRSeek SARS-CoV-2 Identification Kit
- VIRSeek Murine Norovirus (MNV) Process Control

For details on Eurofins COVID-19 Sentinel Wastewater Testing, VIRSeek test kit purchases or to request your sampling kit, contact us at [COVIDWW@EurofinsUS.com](mailto:COVIDWW@EurofinsUS.com).