PHARMACEUTICALS IN THE ENVIRONMENT

Pharmaceutical compounds are an increasing concern for governmental agencies committed to clean water and the environment. In recent German studies, 631 out of 713 compounds have been found in diverse areas such as streams, rivers, lakes, drinking water and soils. The effect of pharmaceutical compounds on the flora and fauna of these areas is largely unknown as studies are still in their infancy.

HOW DO PHARMACEUTICALS ENTER THE ENVIRONMENT?
Pharmaceutical compounds are released into the environment through three primary routes:
1. Excretion following consumption by a patient with as much as 90% of the compound being excreted.
2. Improper disposal of leftover medicine into the sink, down the toilet or in household trash via landfill.
3. Pharmaceutical manufacturing plant effluent released during and after manufacturing operations.

HOW CAN BUREAU VERITAS HELP YOU?
To measure the presence of pharmaceuticals in the environment, Bureau Veritas has developed methodology based on EPA Method 1964, utilizing High Pressure Liquid Chromatography coupled to a Triple Quadrupole Mass Spectrometer. Our measurement efforts are used to help control and reduce the amount of pharmaceuticals in the environment.
Bureau Veritas also works with individual companies to ensure that the compounds they produce at a given location can be measured by HPLCMSMS technology even if they are not listed on the EPA method. We have developed validation techniques and criteria to ensure that each compound can be recovered and quantitated by a reproducible and verifiable technique. This allows companies to customize the analysis to the specific compounds that are being manufactured at the site of interest.
The Bureau Veritas methodology can help ensure that your facility upholds its commitment to the environment and the surrounding communities that would be impacted.

ABOUT US
Bureau Veritas is a North American provider of analytical services and solutions to the environmental, energy, food, DNA and industrial hygiene industries with an extensive laboratory network in Canada. Our work supports critical decisions that improve performance, reduce risk or help customers meet safety, quality and regulatory objectives. Founded in 1828, Bureau Veritas is the global leader in testing, inspection and certification services with 78,000 employees in 1,500 locations worldwide.

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