Sample Preparation for Microplastics by LDIR: Best Practice

LIVE WEBCAST

North America:
Wednesday, February 15, 2023
11am PST | 1pm CST | 2pm EST

Europe:
Wednesday, February 15, 2023
10am GMT | 10am BST | 11am CET

Asia:
Thursday, February 16, 2023
10:30am IST | 1pm SGT | 2pm JST | 4pm AEST

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Event Overview

Everyday plastic items can degrade into small fragments and particles through use, wear, weathering, or improper disposal of waste. These small-sized plastic particles are ubiquitous substances in the environment and are considered as emerging contaminants by the World Health Organization. More research is needed into the impacts of microparticles on human health, especially as microplastics have been found in drinking water, wastewater, and foods.

To understand the behavior of microplastics in the environment and in food chains, accurate methods are needed that can identify, characterize, and quantify different polymers. Efforts are being made to standardize microplastic analysis methods around the globe by performing interlaboratory studies (ILS). So far, however, the results of ILS have shown significant variation, due in part to differences in methodology from sample preparation through to analysis, including inconsistent use of quality assurance procedures.

To achieve accurate and reproducible analysis of microplastics, certain practical aspects should be considered. In this webinar, we will highlight microplastic sample preparation in various matrices and examine best practice for performing accurate on-filter microplastic analysis using the Agilent 8700 LDIR Chemical Imaging System.

Key Learning Objectives

- Options for sample preparation in various matrices prior to analysis by the Agilent 8700 LDIR
- The role of key QA procedures for managing and reducing sample contamination
- Best practice for the use and handling of filters before and during sample preparation
- Best practice to ensure accurate and efficient microplastic analysis using the Agilent 8700 LDIR

Who Should Watch

- Microplastics researchers
- Microplastics analysts from commercial, QA, or research labs seeking to better understand the role of sample preparation in microplastics analysis
- Those interested in contamination of wastewater, seawater, freshwater, air, sediments, and food (such as fish, shellfish, crustaceans, and bottled water)

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