November 3, 2021 (12:00–12:45, CET)

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VENDOR WEBINAR:

PerkinElmer Technologies for Food Testing: Advancement in the Determination and Confirmatory Analysis of PFAS in Food Matrices Using QSight LC/MS/MS

Advancement in the determination and confirmatory analysis of PFAS in food matrices using QSight LC/MS/MS

Prof. Ovokeroye A. Abafe, PhD, Agricultural Research Council-OVR, Residue Analysis Laboratory, Pretoria, South Africa
Dr. Ignazio Garaguso, Sr. Principal Regional Segment Leader, Germany, PerkinElmer

Per- and polyfluoroalkyl substances (PFAS) are classified as persistent organic pollutants that are resistant to biodegradation, with half-lives of over fifteen years in humans. Human exposure to these compounds through ingestion, inhalation and dermal contact has been linked to cancer, dermal allergies, low infant birth weight, infertility and increased risks of obesity, among others. Challenges in the analysis of PFAS in biological matrices have been widely reported in the literature.

In this webinar Prof. Abafe will share recent results of his works on the development and validation of sensitive methods for determination and unambiguous confirmation of residues of PFAS in breastmilk, retail milk, infant formulas and human serum. The methods developed demonstrate good linearity, high recovery with acceptable matrix effects and were validated in accordance to the requirements of Commission Decision 657/2002/EC with slight modifications.