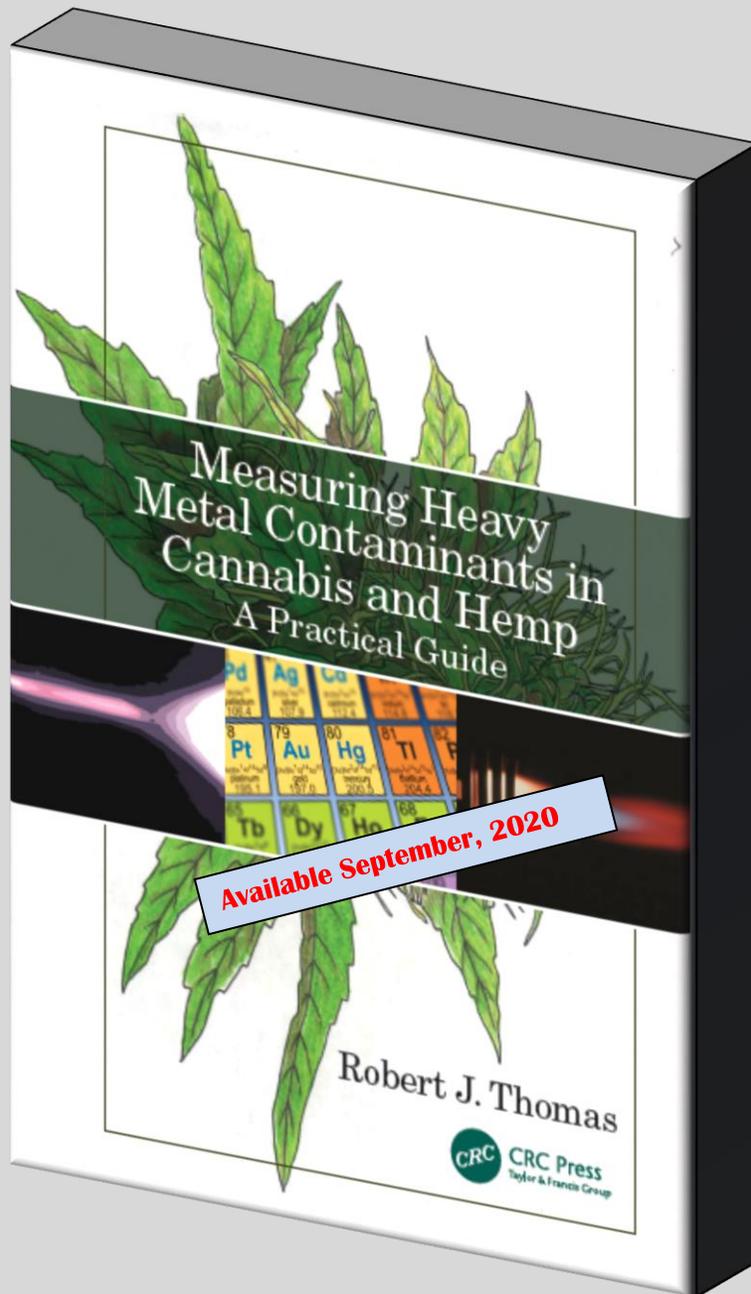


CRC Press/Taylor & Francis announces the availability of:

Measuring Heavy Metal Contaminants in Cannabis and Hemp: A Practical Guide



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www.scientificsolutions1.com

- The complete guide to measuring elemental contaminants in cannabis and hemp for growers, cultivators, processors, testing labs and regulators.
- It examines heavy metal regulations of all states that have legalized medical cannabis.
- For regulators, it compares maximum contaminant limits of heavy metal in cannabis with those of the pharmaceutical industry.
- For testing labs, it describes fundamental principles and practical capabilities of ICP-MS, ICP-OES and AA for measuring heavy metals in cannabis.
- Provides tips on how best to optimize the analytical procedure to ensure high quality data.
- Offers guidance to cultivators and processors about how to better understand the sources of heavy metals in cannabis.

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The cannabis and hemp industry is moving at such an alarming rate that the scientific and analytical testing community is struggling to keep up with it. It is estimated that the demand for medicinal and adult recreational cannabis-based products, containing Tetrahydrocannabinol (THC) and Cannabidiol (CBD) compounds will exceed \$25 billion in the US by 2025. However, because the FDA has only been involved in this process when an investigational new drug (IND) has been submitted to conduct human clinical trials (e.g. Epidiolex™ for the treatment of seizures in young children), regulating the industry to make sure products are safe for human consumption has been left to individual states. In addition, CBD-only products, which are dominating today's marketplace, are for all intents and purposes, unregulated by the federal government at this time.

Unfortunately, many state regulators do not have the necessary experience and background to fully-understand all the safety, quality and toxicological issues regarding the cultivation and production of cannabis and hemp products on the market today. Besides the need to characterize its CBD/THC potency and other beneficial compounds such as terpenoids, one of the most important contaminants to measure is the level of heavy metals, because cannabis and hemp will avidly accumulate trace elements from the growing medium, soil, fertilizers and even the metallic equipment used during the preparation and processing of the various concentrates and oils. The toxicity effects of heavy metals have been well-documented in the public domain, because they have such a serious impact on human health, particularly for young children and adults with compromised immune systems. This new book will therefore focus on the importance of measuring elemental contaminants (heavy metals) in cannabis and hemp and in particular, how they might be better regulated to ensure that products are safe for human consumption.