Uncertainty profile; a global strategy for validation and estimation of uncertainty: Application to a high-performance thin-layer chromatographic method

Y H Benchekroun, T Saffaj, B Ihssane, F Jhilal, S S Alaoui and H Bouchafra
Sidi Mohamed Ben Abdallah University, Morocco

The aim of this work is to apply a new technique for the validation of quantitative analytical procedures based on β-content tolerance interval and uncertainty profile. Also, an original strategy for estimating measurement uncertainty by the same approach has been developed. The performance of our proposal was confirmed by application to a High Performance thin-layer chromatography for formulation drugs. Compared to the classical strategy, the new approach has a more holistic character. It means that it is no longer necessary to know the various individual steps into which the analytical method can be broken down since this latter is taken as a whole.

Biography
Yassine Hamed Benchekroun is a PhD candidate in Chemometrics; His research has focused on several lines: development of methodologies for pharmaceutical and biomedical analysis, and quality assurance for drug assays; chemometric pattern recognition covering methodological developments; experimental design and optimization of the analytical process; validation of analytical methods and estimation of the measurement uncertainty.

yassine.benchekroun@usmba.ac.ma