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Quality control measures for verification of validated performance criteria of analytical methods

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The WESSLING Hungary Ltd. is one of the biggest Hungarian independent commercial service laboratories carrying out environmental, pharmaceutical, food and feed investigations. The laboratory is serving different expertise documents for the clients turning to this professional organisation. Our presentation aims to outline several quality assurance practices used in the laboratory activities. To interpret the different analytical results is necessary to know the conditions of sampling (the size of lot to be sampled, the way of sampling, the amount of parts of samples etc.). That is why our sampling procedures and techniques are very strict to avoid the vast mistakes affecting the whole investigation process. Assuming that the sampling was correct, the reliability of measurements is assured by several inter-laboratory quality control provisions such as applying certified reference materials or analytical standards. So, the most significant task is that they are within their official shelf life. To monitor the validity of these chemicals means rigorous duty as we are using more than 1000 pesticide standards and other different chemicals (mycotoxins, metal liquids, migrant molecules from FCM-s etc.). Further on, regular supervising and recording the performance of the instruments and the analytical procedures are carried out as specified in the SOPs which are the basis of all of the WESSLING-investigations according to relevant (ISO, EN, MSZ, EPA etc.) standards. The lecture will describe using of control cards and critical analytical performance indexes and provide a few details about our own internal audits, reanalysis of anonym samples, participation in different proficiency tests and laboratory ring tests. We are committed to give as precise result for our consumers as possible while the value of a result worth as much as its use in practise.