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NMKL guidelines for verification of analytical methods

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Before an analytical method is taken into use, example for routine testing, a laboratory must demonstrate that it is capable of performing the prescribed method. This includes evaluation of relevant performance characteristics to ensure that the method is fit for its purpose and that it works well at the laboratory. The extent of the verification depends on the extent of the external validation. If the method is an official method that has been fully validated in an inter-laboratory study, then it might be sufficient to verify the method's precision and trueness. Together, precision and trueness form the accuracy of the method which again expresses the measurement uncertainty. This talk will be based on simple NMKL guidelines such as procedures for method validation, measurement uncertainty, use of certified reference materials and recovery estimation.