

Reference Materials for your Tasks and Applications

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Each day every person gets in contact with an almost indefinite number of products, which contain hundreds of chemicals and must meet defined quality specifications. To ensure their product qualities, robust testing procedures using appropriate validated analytical methods and well-characterized reference materials are required.

The product portfolio of Merck's Advanced Analytical Business Unit covers the whole workflow from sample collection and preparation to data analysis. Since certified reference materials are a crucial component in this sequence, Merck installed centers of excellence in four different locations - Buchs, Laramie, Round Rock, and Darmstadt. These R&D teams develop customer specific solutions as well as new catalog products, and provide global access to reference materials for many different market segments.

The contribution will give short background on the most relevant metrology aspects during a reference materials characterization and preparation and will present an overview on the different reference methods used in the certification processes, e.g. quantitative nuclear magnetic resonance spectroscopy, isotope dilution mass spectroscopy or mass balance. In addition, the most important collaborations and current reference materials key initiatives will be displayed to demonstrate Merck's capability and network in this field.

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