infoExpo 2009

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Hôtel Mövenpick
Abstract Séminaire

Séminaire, Workshop & Exposition

HPTLC-MS of active pharmaceutical ingredients and constitutents of medicinal plants

TLC/HPTLC is a powerful tool, which is widely used, e.g. to decide on the progress of a chemical synthesis, the content of an active substance in a plant extract, the amount of degradation of a pharmaceutical, as well as for many other applications. TLC/HPTLC is often the first analytical method to be used, because it's easy to use and the separation medium is disposable. For a long time, attempts have been made to identify substance spots directly on the TLC plate, first by scraping-off and extracting the layer, later e.g. by coupling techniques like MALDI. Some years ago, Dr. Heinrich Luftmann from the University of Munster/Germany developed an automatic extraction device for thin-layer plates and showed its usability and its performance in different applications. Prof. Gerda Morlock, University of Hohenheim, published several studies with the same type of instrument and popularized the concept.
In 2008 CAMAG has decided to develop and manufacture a TLC-MS extraction device according to the concepts of Luftmann. Since early 2009 instruments have been commercially available.
We had the opportunity to test this device in some of our projects.

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