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Residual solvents determination in pharmaceutical products by GC-HS and GC-MS-SPME

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Albestraset

Solid-phase microextraction (SPME) has been applied to the residual solvents determination in pharmaceutical products and was compared with the static headspace. Three fibers with different polymer films were compared and the polydimethylsiloxane/divinylbenzene coated fiber was found to be the most sensitive for the analyzed analytes. Between the investigated sample preparation techniques, gastight-SPME proved to be the most sensitive, with DL values ranging from 5 pg ml⁻¹ to 2 ng ml⁻¹. Headspace SPME is more precise, with RSD of peak areas values ranging from 2 to 3%. The headspace SPME method was successfully validated. The validation data are reported in the text. The most important difference between the two techniques is that the gastight SPME showed better behavior towards very volatile solvents. Compared with the static headspace technique, both SPME methods showed superior results, being compatible with the pharmaceutical samples, © 1998 Elsevier Science B.V. All rights reserved.

Keywords: Extraction methods; Solid phase microextraction; Residual solvent analysis; Headspace analysis

1. Introduction

The residual solvents determination in drug substances, excipients or drug products is known to be one of the most difficult and demanding analytical task in the pharmaceutical industry.

The practice shows that it is not a rare case when an on-going selectivity is quite hard to keep as unknown volatile components does appear in the chromatogram of the investigated pharmaceutical products. The identification of these unknown components requires the selectivity and mass spectral capabilities of GC-MS. In order to reach the quantitation limits required by regulatory agencies [1], sample preparation methods should be used. The sample preparation method should be precise, simple, cheap and it should allow easy automation. The common extraction techniques for volatile organic compounds are compared in Table 1 from previous points of view.

In Table 1, we highlighted the headspace and SPME sample preparation methods as being the most suitable from all points of view for the determination of residual solvents in pharmaceutical products.

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