

Mass Spectrometry and Doping Control in Horseracing: Past and Present

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In equine doping control, mass spectrometry has developed from a technique reserved for research and application as a confirmatory technique to the primary analytical tool available to racing laboratories. LC-MS, GC-MS, triple quadrupole, high resolution accurate mass instruments, etc. can all be found in the modern doping control laboratory carrying out a variety of analytical tasks. In this presentation we will discuss the role of the equine doping laboratory and review the development of mass spectrometry in this area. Current applications will be discussed, in particular the emergence of accurate mass LC-MS as a screening tool capable of efficiently covering large numbers of analytes in a few analytical runs.