



# Liquid Chromatography: Chapter 15. Analysis of Natural Toxins

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Natural toxins are an extremely complex group of compounds with high activity and diverse origin. The most important groups, in terms of human safety, are phycotoxins (produced by dinoflagellates), the parent freshwater compounds cyanobacterial toxins, and mycotoxins (produced by fungi). Many more toxins and bacterial and pluricellular organisms are known, such as equinoderms, sponges, and snails. Several technologies are available for the detection and quantification of natural toxins, including animal bioassays. This chapter focuses on the solutions most in demand, based on liquid chromatography with (mass) spectrometric detection for analysis of three groups of compounds with special difficulty: tetrodotoxin, lipophilic phycotoxins, and saxitoxins.

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