NMR WARS

SCIENCE

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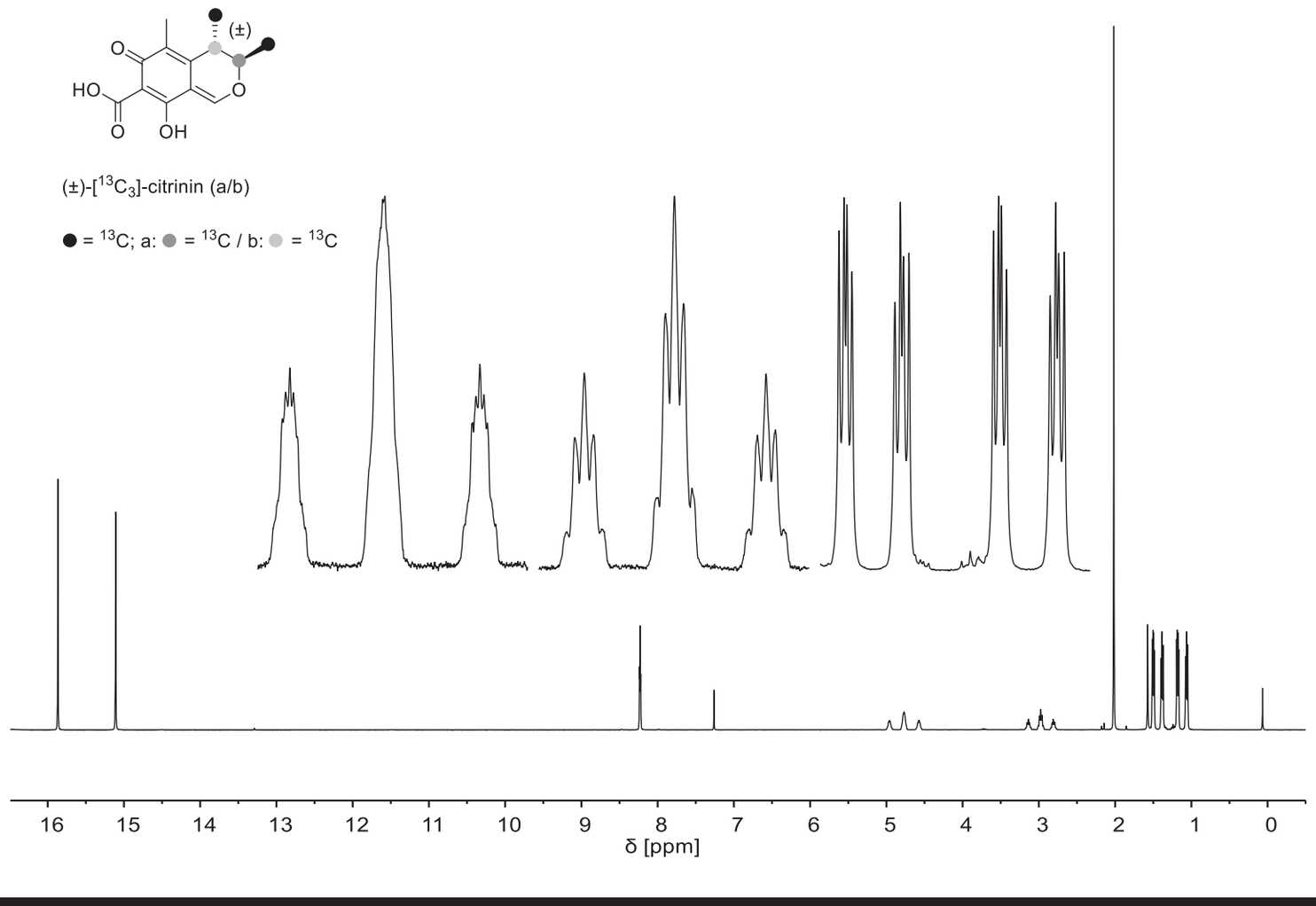

This proton spectrum shows the stable isotopically labeled mycotoxin (±)-[13C3]-citrinin in CDCl3.

Dominik Bergmann, 2016

Institute of Food Chemistry | Westfälische Wilhelms-Universität Münster

Field strength: 400 MHz

Why is this your favorite spectrum?

The spectrum beautifully shows the presence of two isotopomers a and b in a 1:1 ratio. An additional splitting occurs for the methine proton of a or b which is directly bound to ^{13}C. The isotopomers occurred because of a rearrangement via a phenonium-ion during the BBr3-mediated deprotection reaction of the total synthesis.

Further reading via DOI: 10.1007/s12550-018-0308-3