

MS-guided Fractionation as a Fast Way to the Identification of New Natural Products – MALDI-TOF-MS Screening of the Marine Sponge *Stylissa caribica*

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MALDI-TOF-MS was used for the first time as a direct screening method to analyse sponge tissue (*Stylissa caribica*). In order to validate this method the results were compared with a HPLC-ESI-MS analysis of the crude extract from the investigated sponge. Both methods showed a good agreement in their results, allowing for the rapid identification of 15 pyrrole-imidazole alkaloids.

Key words: Natural Products, Marine Sponge, Mass Spectrometry