

Accepted Manuscript

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PII: S0021-9673(18)30381-9
DOI: <https://doi.org/10.1016/j.chroma.2018.03.054>
Reference: CHROMA 359293

To appear in: *Journal of Chromatography A*

Received date: 9-3-2018
Revised date: 24-3-2018
Accepted date: 27-3-2018

Please cite this article as: S.Agatonovic-Kustrin, E.Kustrin, M.J.Angove, D.W.Morton, A screening method for cardiovascular active compounds in marine algae, *Journal of Chromatography A* <https://doi.org/10.1016/j.chroma.2018.03.054>

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A screening method for cardiovascular active compounds in marine algae

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Highlights

- A new HPTLC screening method for nitric oxide carriers.
- *Dictyota dichotoma* diterpenes bind nitric oxide and may act as nitric oxide donors.
- Marine diterpenoids may have therapeutic value in cardiovascular disease.
- Marine brown algae may prove useful as a functional food in cardiovascular health.

Abstract

The interaction of bioactive compounds from ethanolic extracts of selected marine algae samples, separated on chromatographic plates, with nitric/nitrous acid was investigated. The nature of bioactive compounds in the marine algae extracts was characterised using UV absorption spectra before and after reaction with diluted nitric acid, and from the characteristic color reaction after derivatization with anisaldehyde. It was found that diterpenes from *Dictyota*

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