## Accepted Manuscript

Title: A screening method for cardiovascular active compounds in marine algae

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PII: S0021-9673(18)30381-9

DOI: https://doi.org/10.1016/j.chroma.2018.03.054

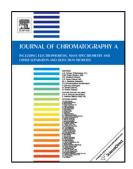
Reference: CHROMA 359293

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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## ACCEPTED MANUSCRIPT

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* 

1

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