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Modification of ulvans via periodate-chlorite oxidation: chemical characterization and anticoagulant activity

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### Highlights

- Ulvans (*Ulva fasciata*) were oxidized via NaIO<sub>4</sub> originating dialdehyde derivatives
- Oxidation of aldehyde groups with NaClO<sub>2</sub> produced polycarboxyl ulvans
- Periodate-chlorite oxidation increased the anticoagulant activity of ulvans
- Anticoagulant activity of polycarboxyl ulvans depends of the native sulfate groups

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