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ACCEPTED MANUSCRIPT

High-performance liquid chromatographic determination of 2aminoethylphosphonic acid and 2-amino-3-phosphonopropionic acid in seawater matrix using precolumn fluorescence derivatization with o-phthalaldehydeethanethiol

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*: Corresponding author: jma@xmu.edu.cn (Dr. J. Ma) Tel./Fax: 0086-592-2186916 Highlights

- Simple HPLC-FLD analysis 2-AEP and 2-AP3 after one-step OPA-ET derivatization.
- One of few methods for the determination of 2-AEP and 2-AP3 in seawater matrix.
- Careful evaluation of salinity effect on derivative efficiency and detection.
- Application to analysis of seawater algal culture media samples.

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