Supplementary Material (ESI) for Photochemical & Photobiological Sciences
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Kinetics of Inhibition of Firefly Luciferase by Oxyluciferin and Dehydroluciferyl-adenylate

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Suplementary Data

Experimental results obtained for the chemical characterization of oxyluciferin and L-AMP.

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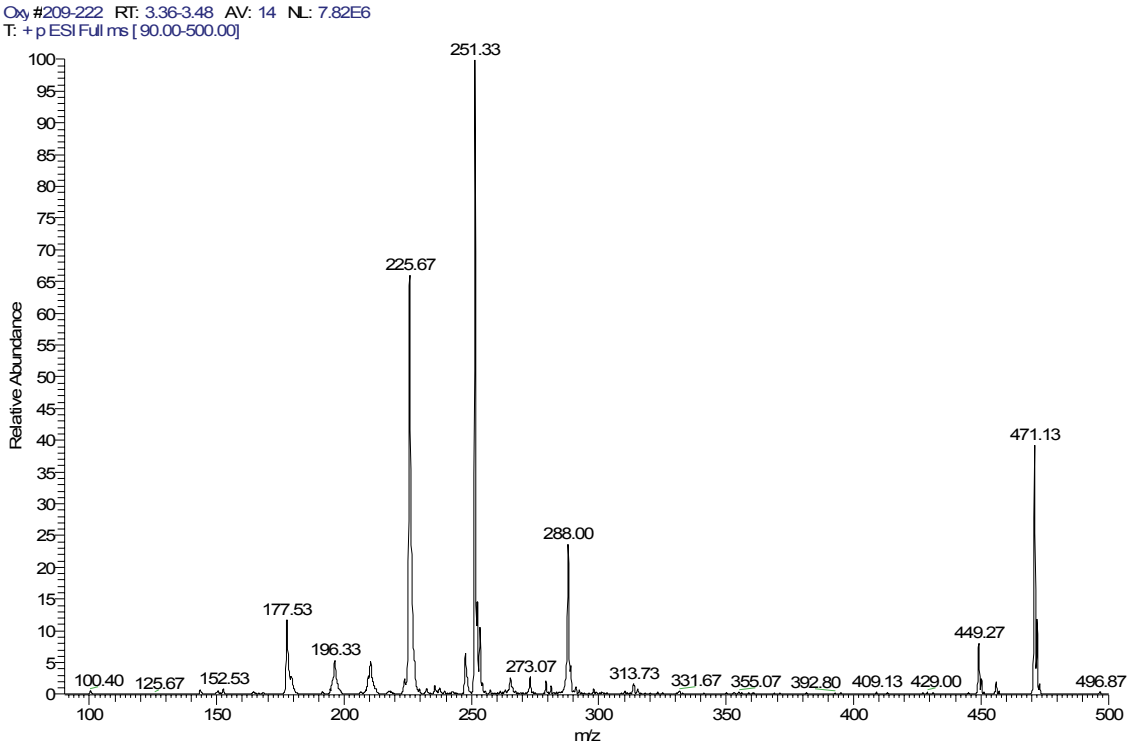
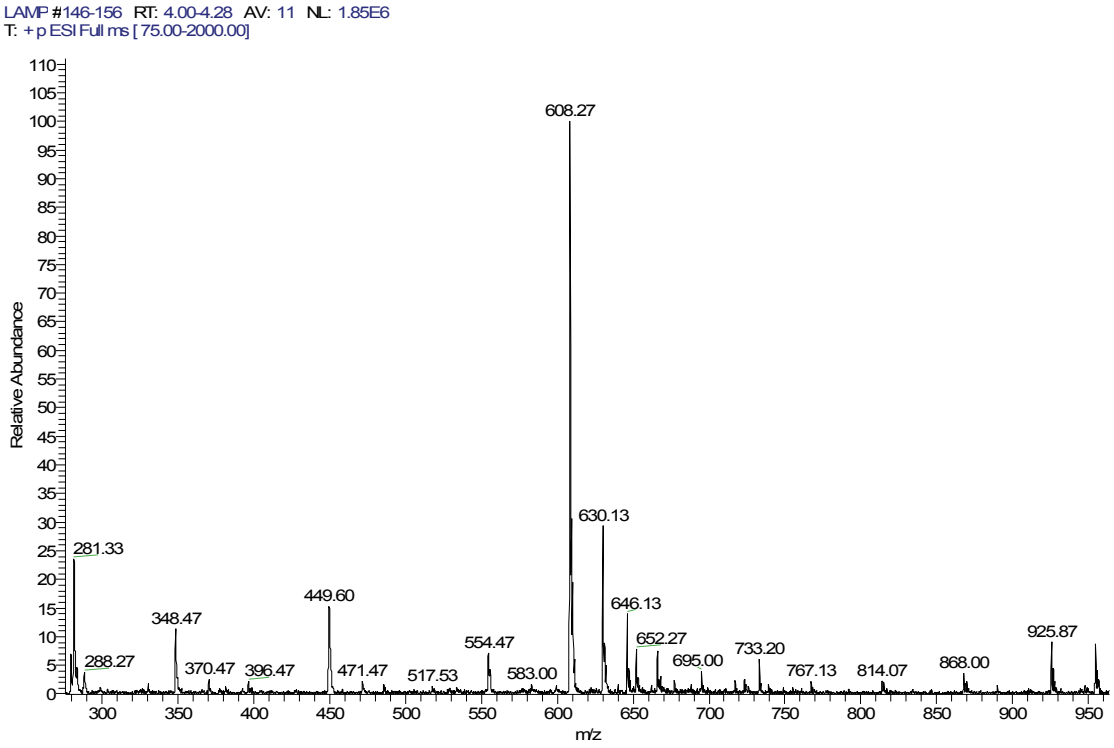
Figure S1: Positive ionization mass spectra of chemically synthesized (a) oxyluciferin (Mw = 250.3) and (b) L-AMP (Mw = 607.5).



a)



b)

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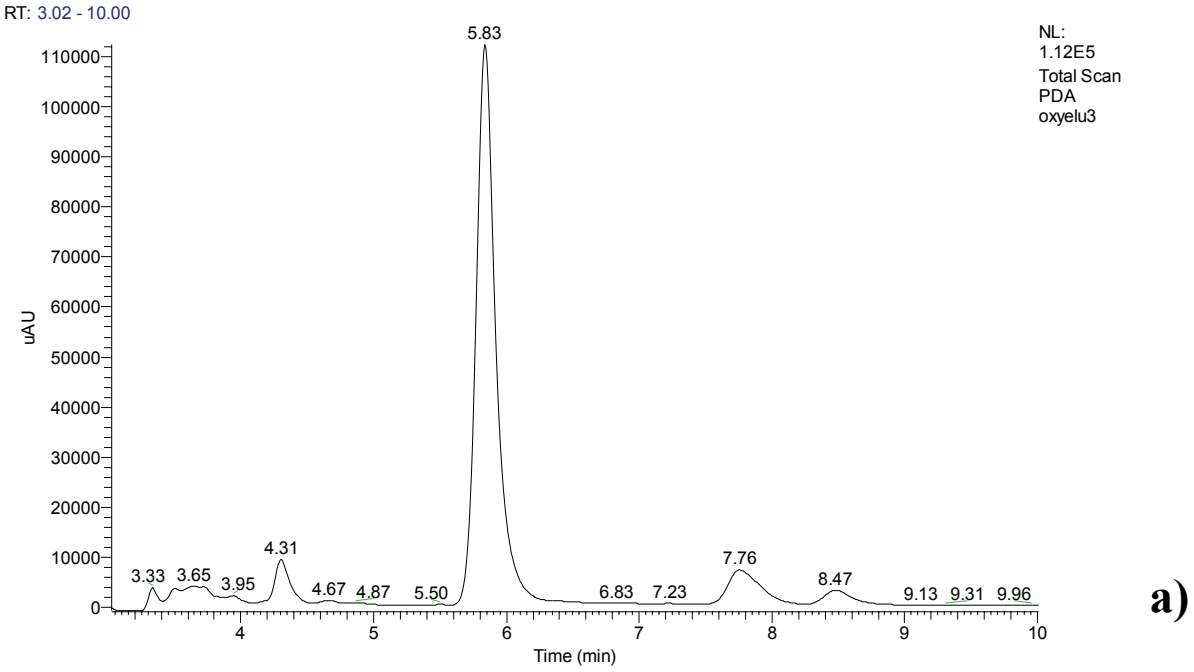
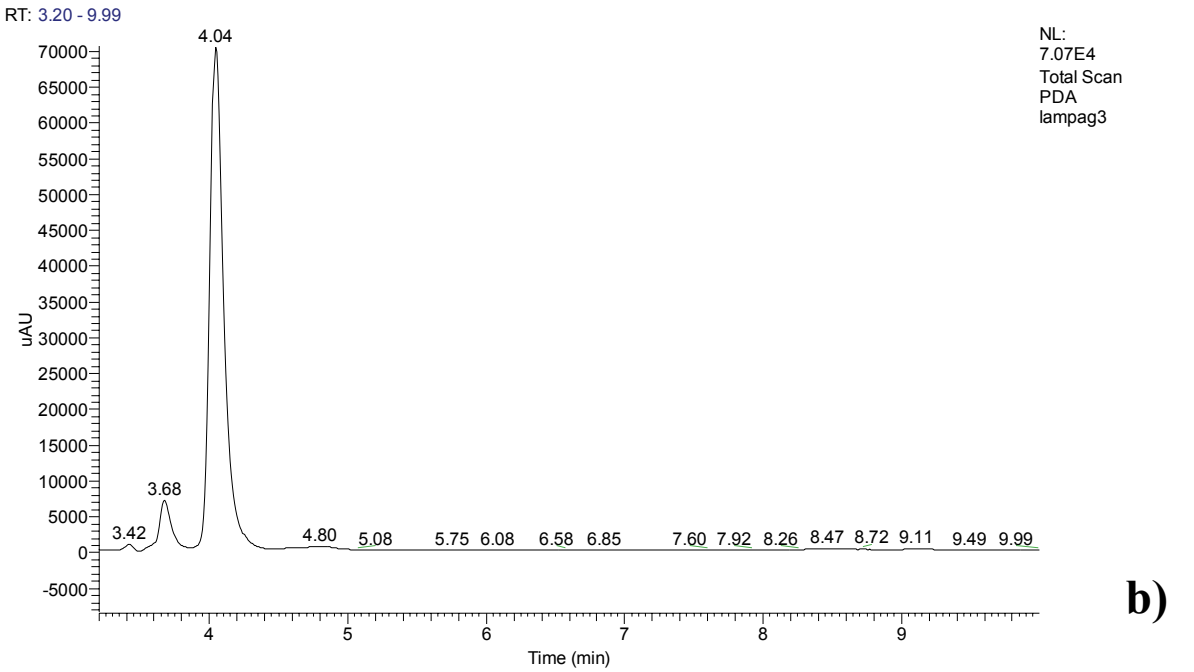
Figure S2: Reversed phase chromatograms of the chemically synthesized (a) oxyluciferin and (b) L-AMP (injection volume = 20 µL). The eluent solutions used were mixtures containing methanol in water (28% v/v) and phosphate buffer (7 mM, pH 7.0) and the flow rate was set to 1 mL/min. The chromatographic system consisted of a HP-1100 isocratic pump, a Rheodyne manual injection valve, a Chromolith C18 column (Merck), and a Thermo Finnigan UV6000 LP diode array detector with a 50 mm LightPipe flowcell.

Purity calculations were base on at least three independent experiments.



a)



b)