



Supplementary Materials

Concentrated Manipueira as an Alternative Low-Cost Substrate to *Rhodotorula glutinis* for Biotechnological Production of High Contents of Carotenoids

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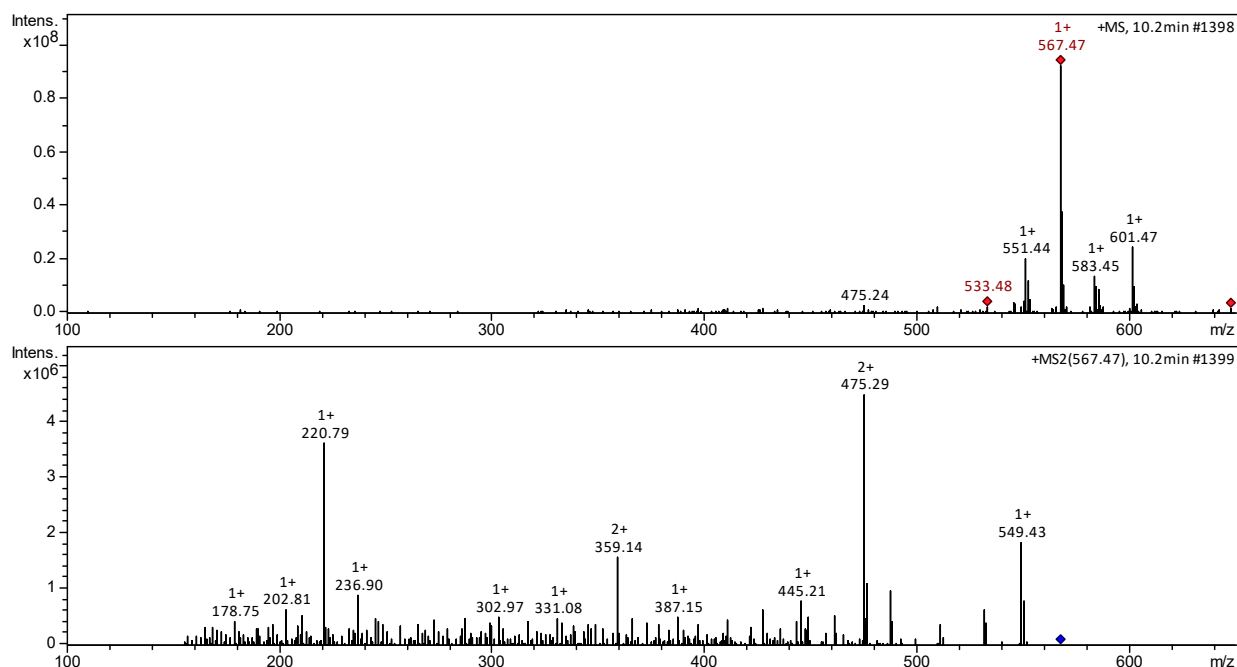
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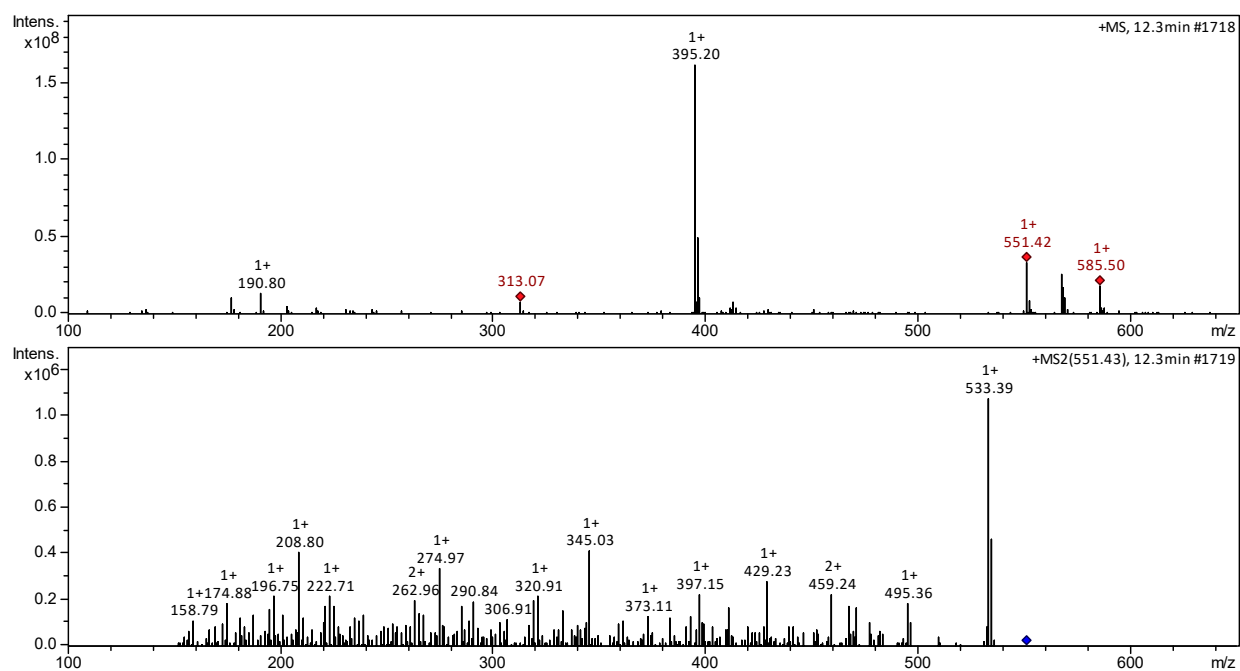
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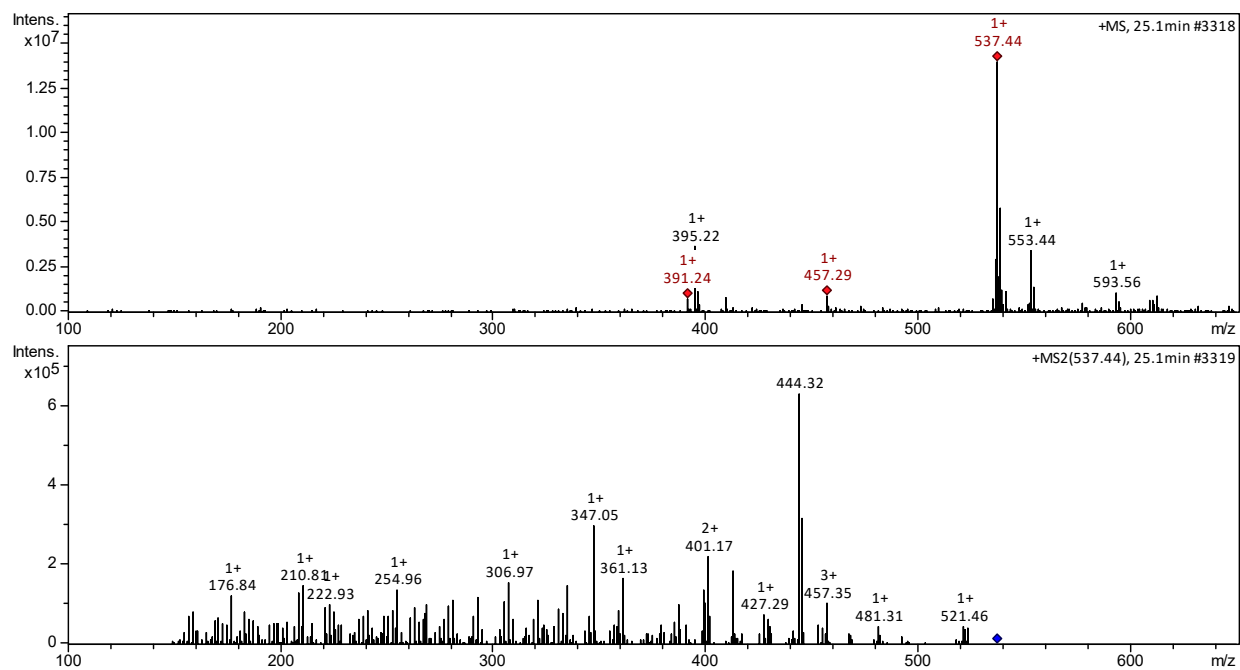
5,8-epoxy-Lutein – peak 1:



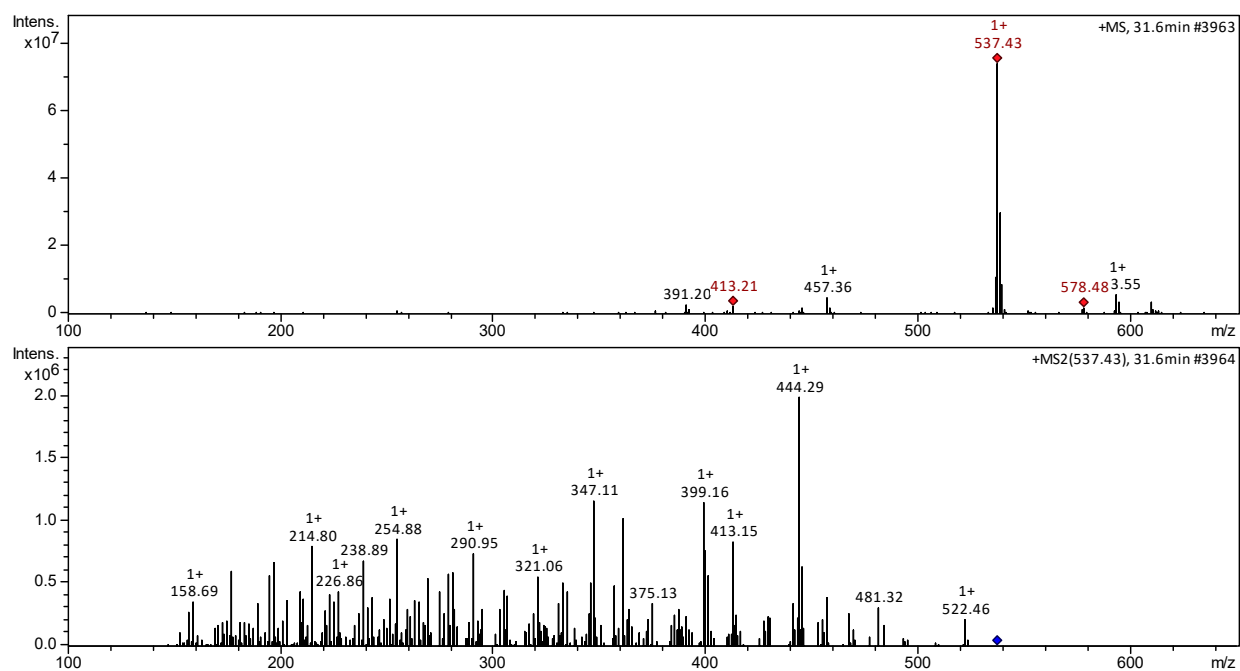
(all-*E*)-Lutein – **peak 2**:



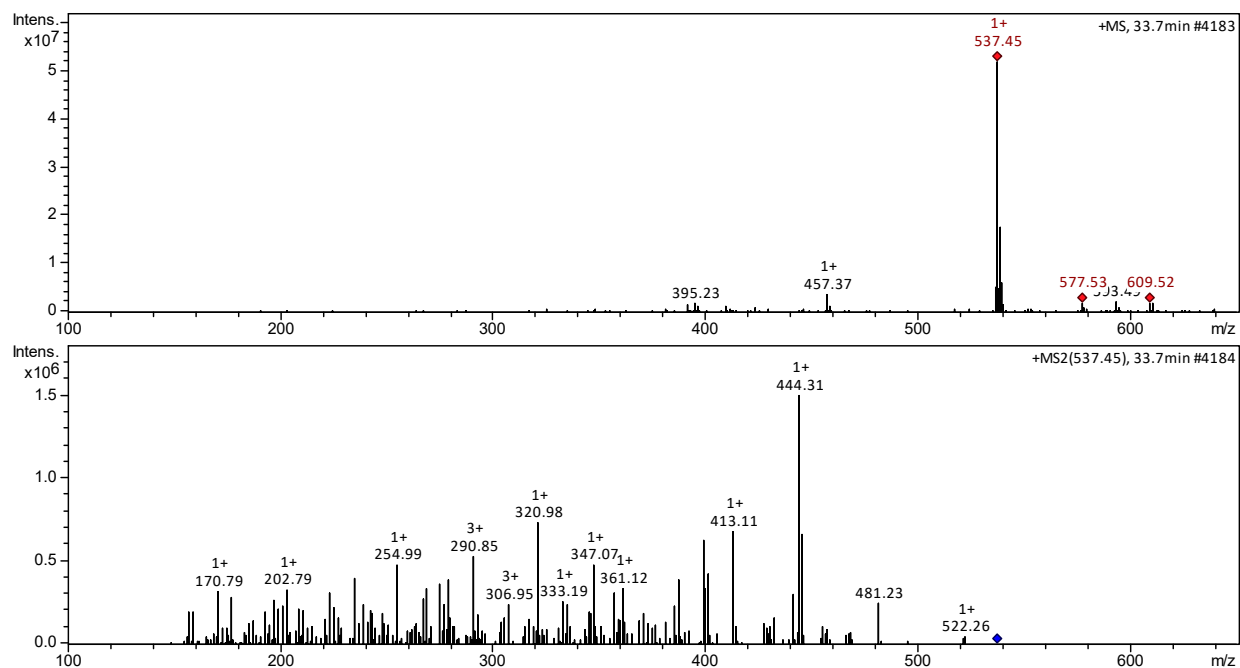
(13*Z*)- β -Carotene – **peak 3**:



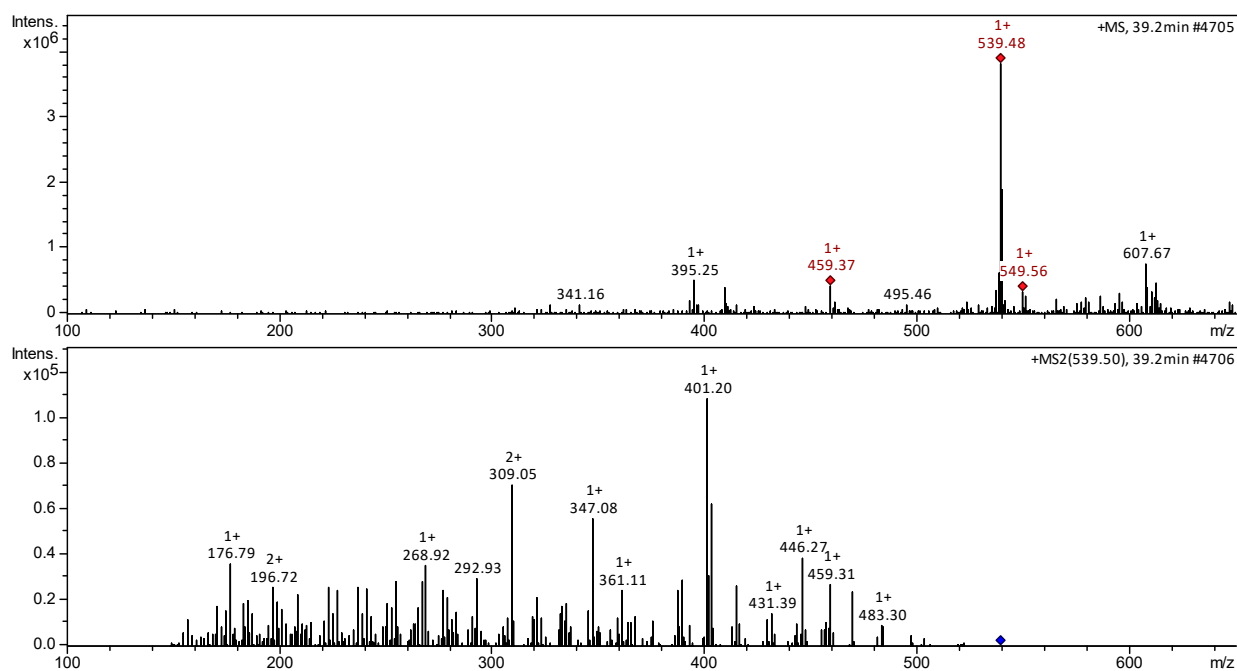
(all-E)- β -Carotene – peak 4:



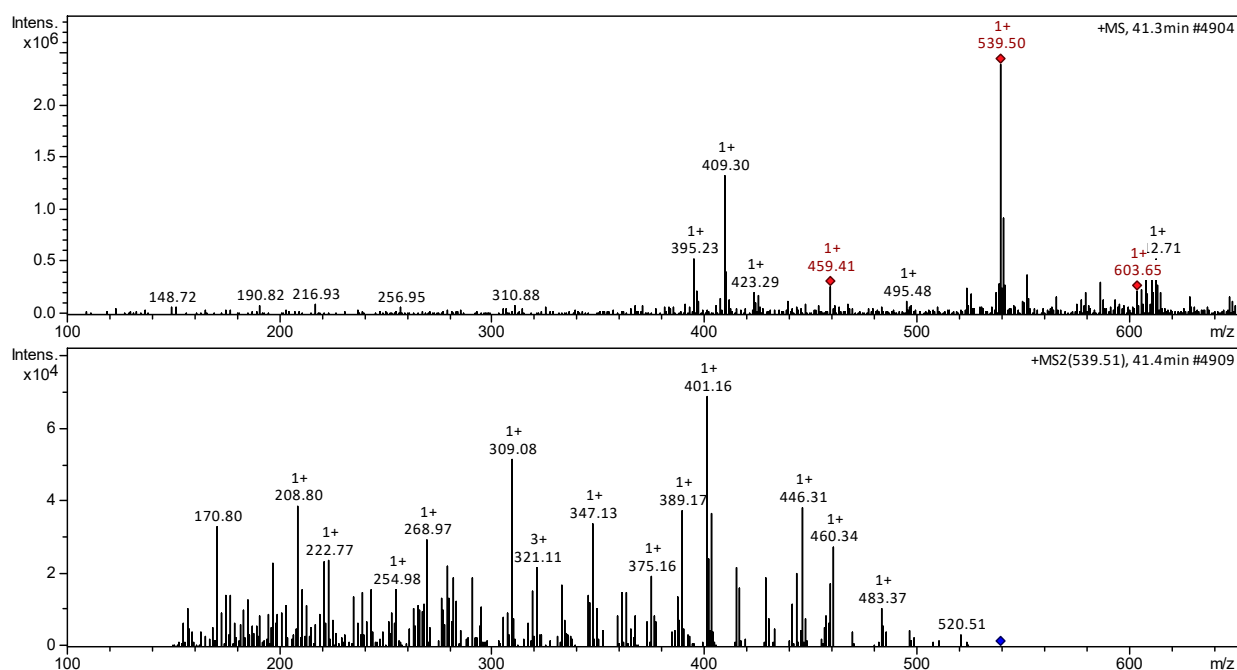
(9Z)- β -Carotene – peak 5:



β -Zeacarotene 2 – peak 6:



β -Zeacarotene 2 – peak 7:



Supplementary Figure S1. MS and MS/MS spectra, by HPLC-DAD-APCI-MS/MS, of the carotenoids tentatively identified in the biomass of *Rhodotorula glutinis* cultivated with concentrated *manipueira* as substrate.