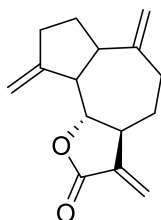


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Compound 1: Dehydrocostus lactone



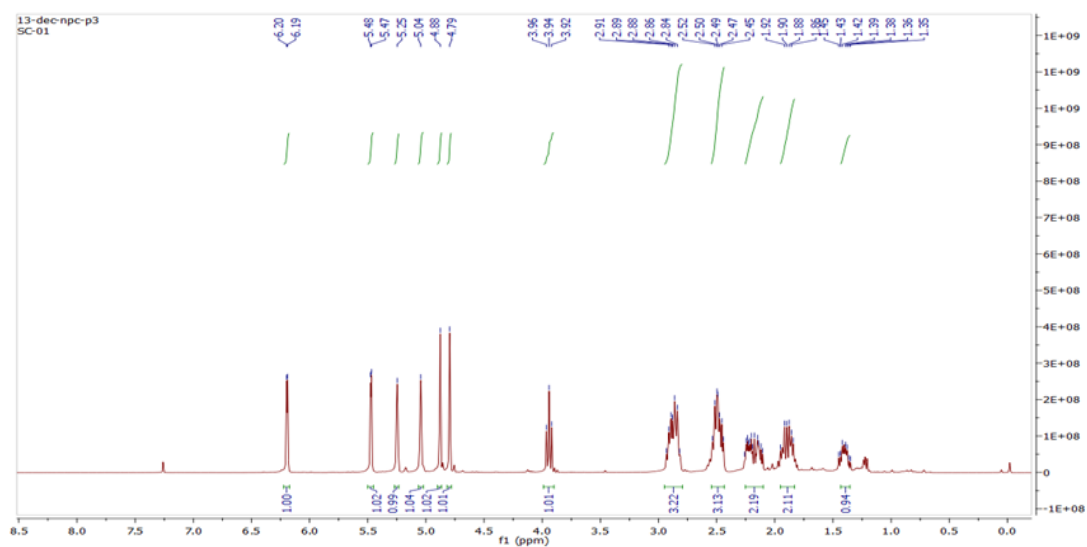


Figure S1: ^1H NMR spectra of Dehydrocostus lactone (CDCl_3 , 400 MHz).

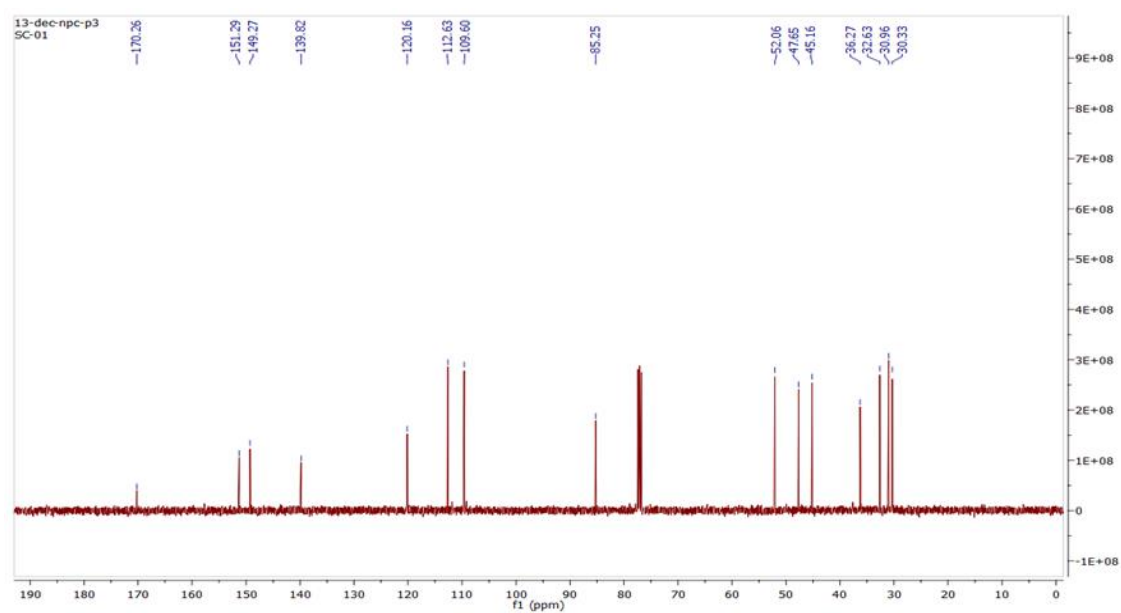


Figure S2: ^{13}C NMR spectra of Dehydrocostus lactone (CDCl_3 , 100 MHz).

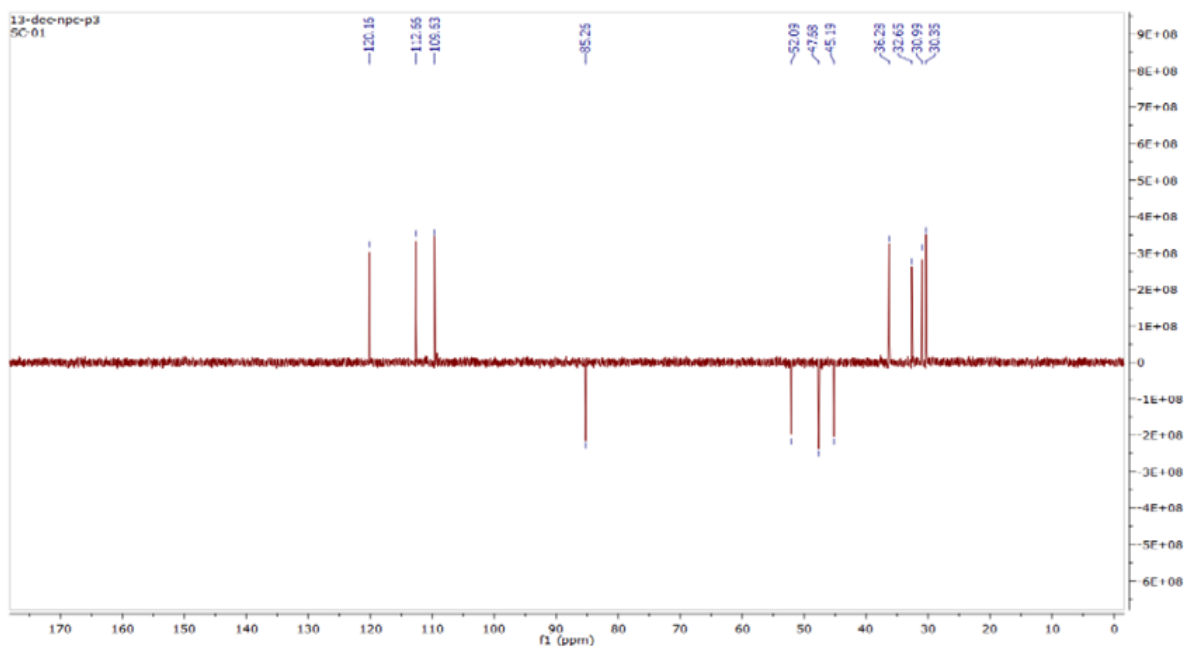


Figure S3: DEPT spectra of Dehydrocostus lactone (CDCl_3 , 400 MHz).

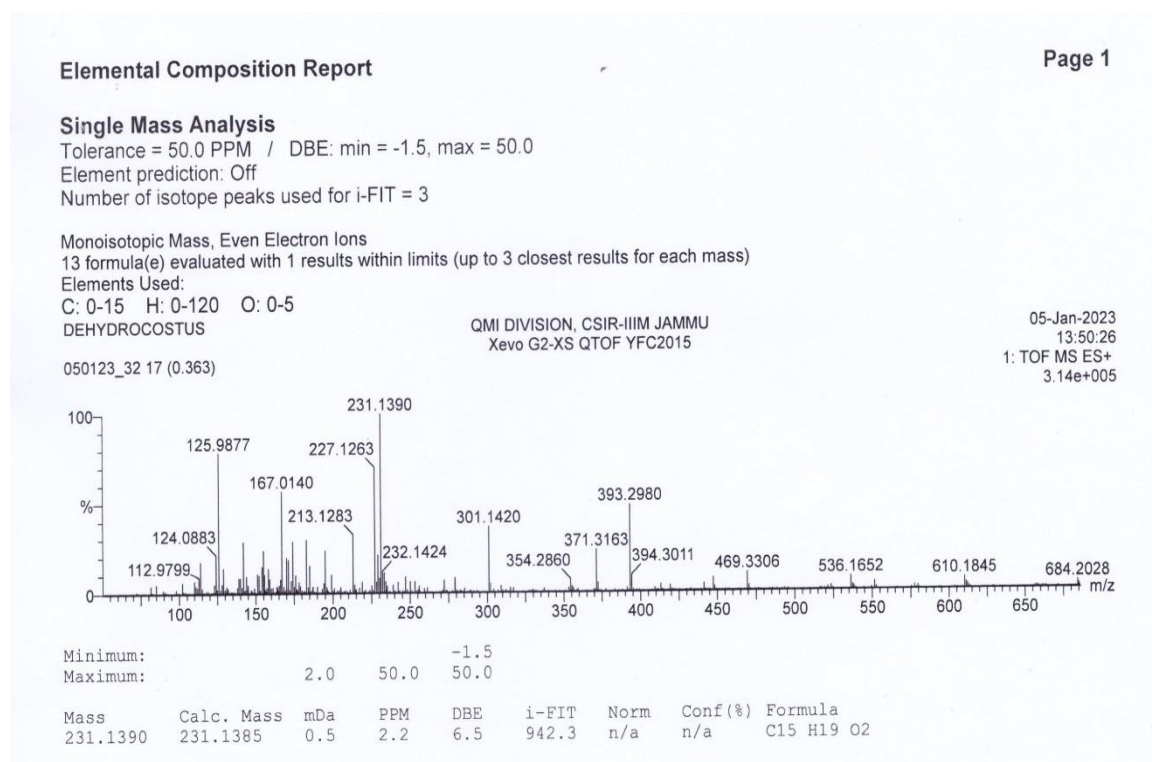


Figure S4: HRMS of Dehydrocostus lactone (CDCl_3 , 400 MHz).

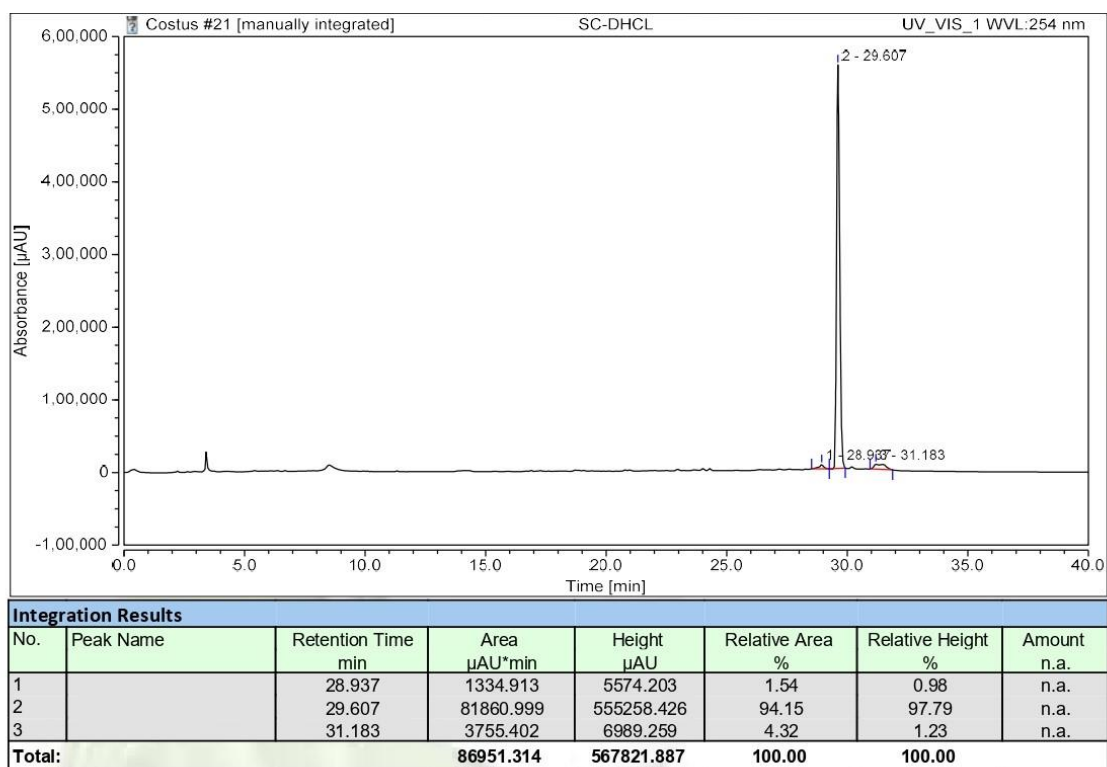


Fig S5: Purity profile of compound Dehydrocostus lactone.

Compound 2: Costunolide

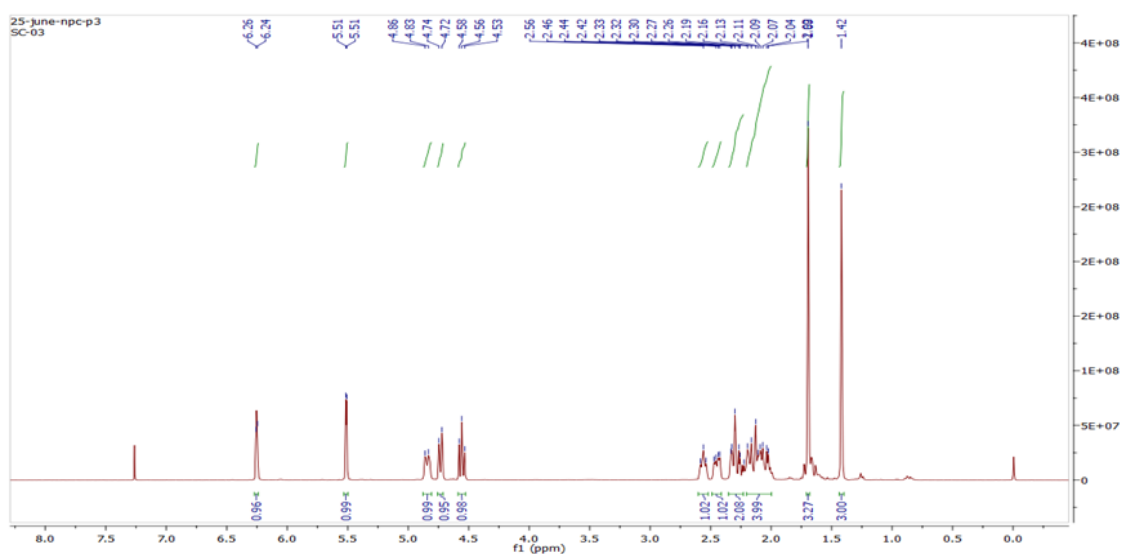
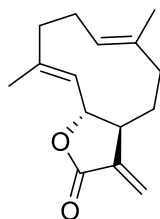


Figure S6: ^1H NMR spectra of Costunolide (CDCl_3 , 400 MHz).

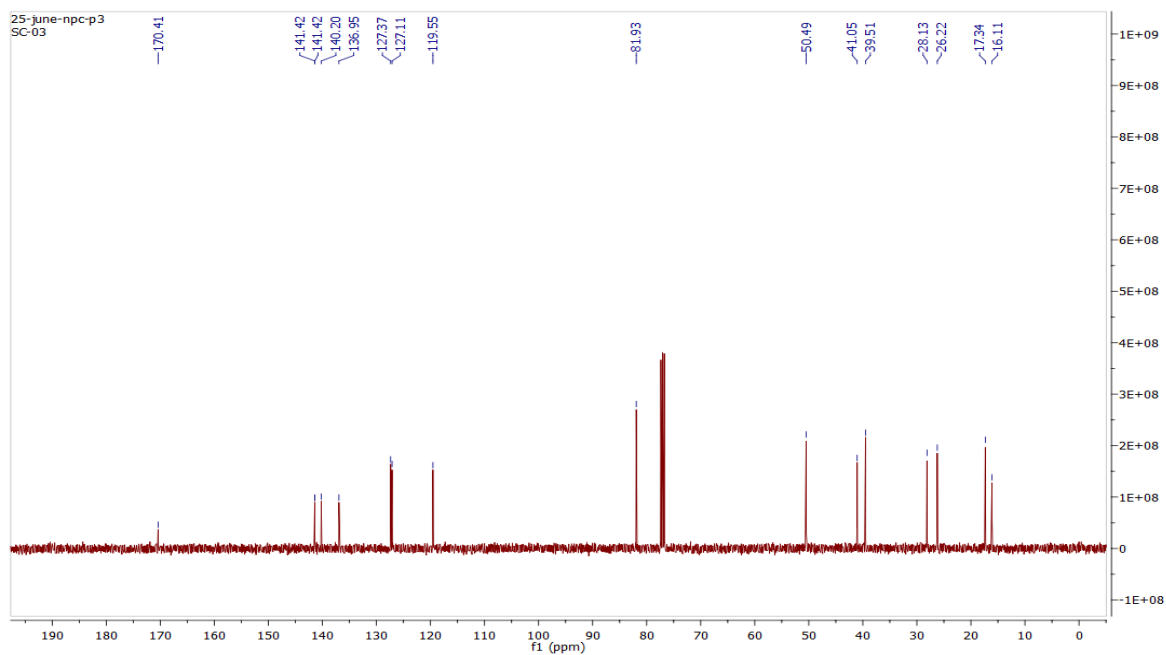


Figure S7: ^{13}C NMR spectra of Costunolide (CDCl_3 , 100 MHz).

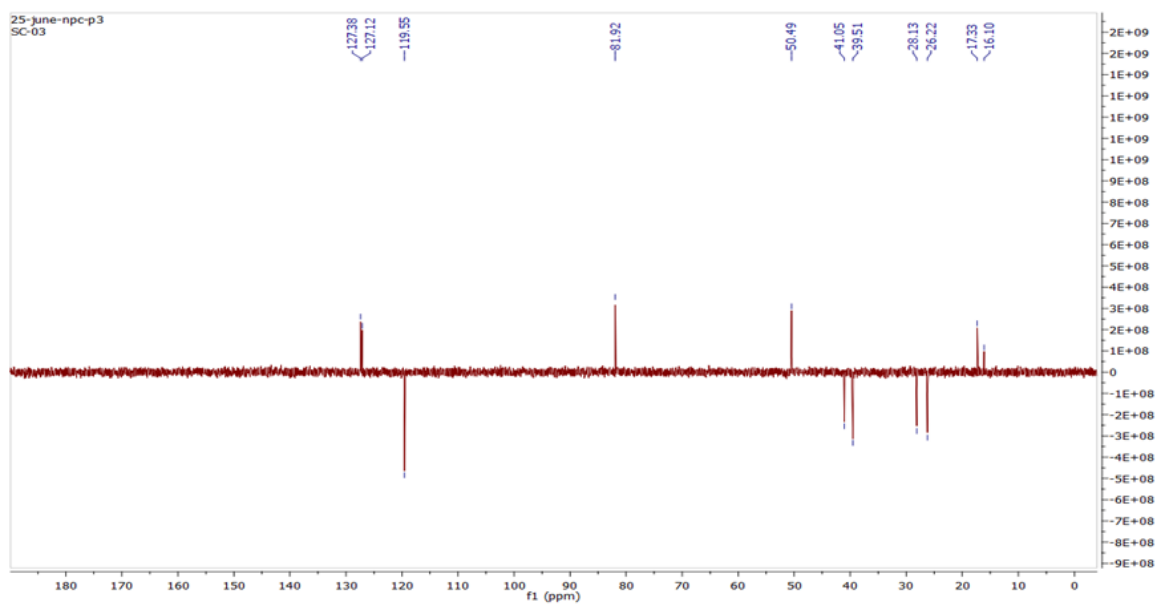


Figure S8: DEPT spectra of Costunolide (CDCl_3 , 400 MHz).

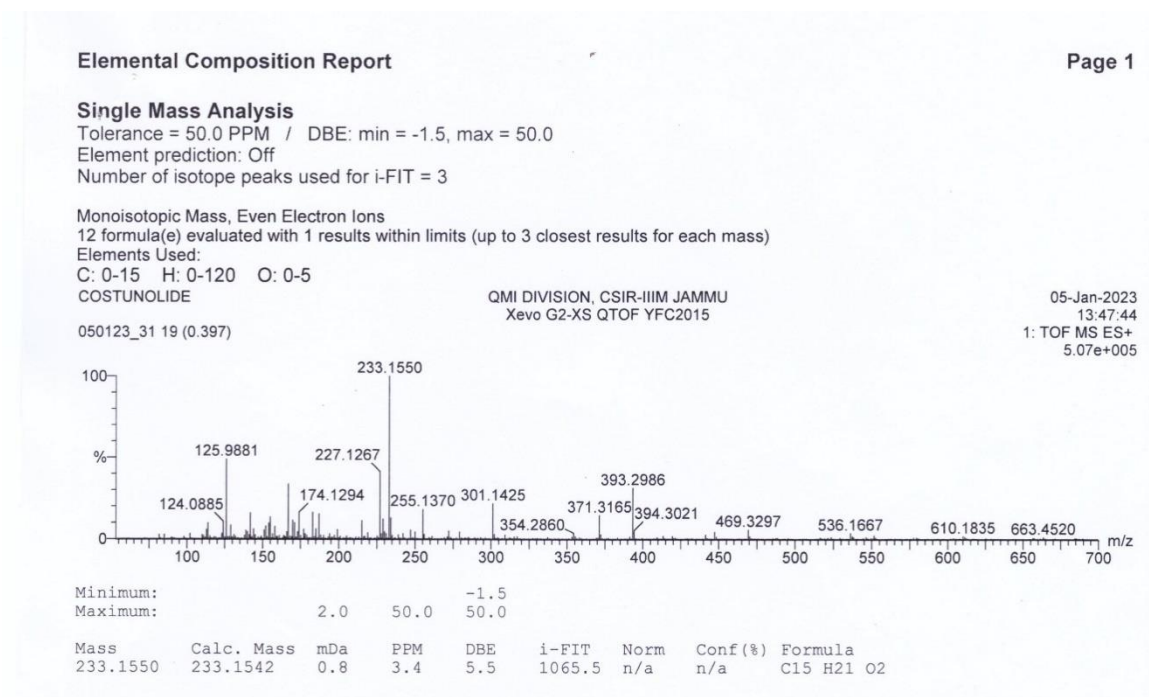


Figure S9: HRMS of Costunolide (CDCl₃, 400 MHz).

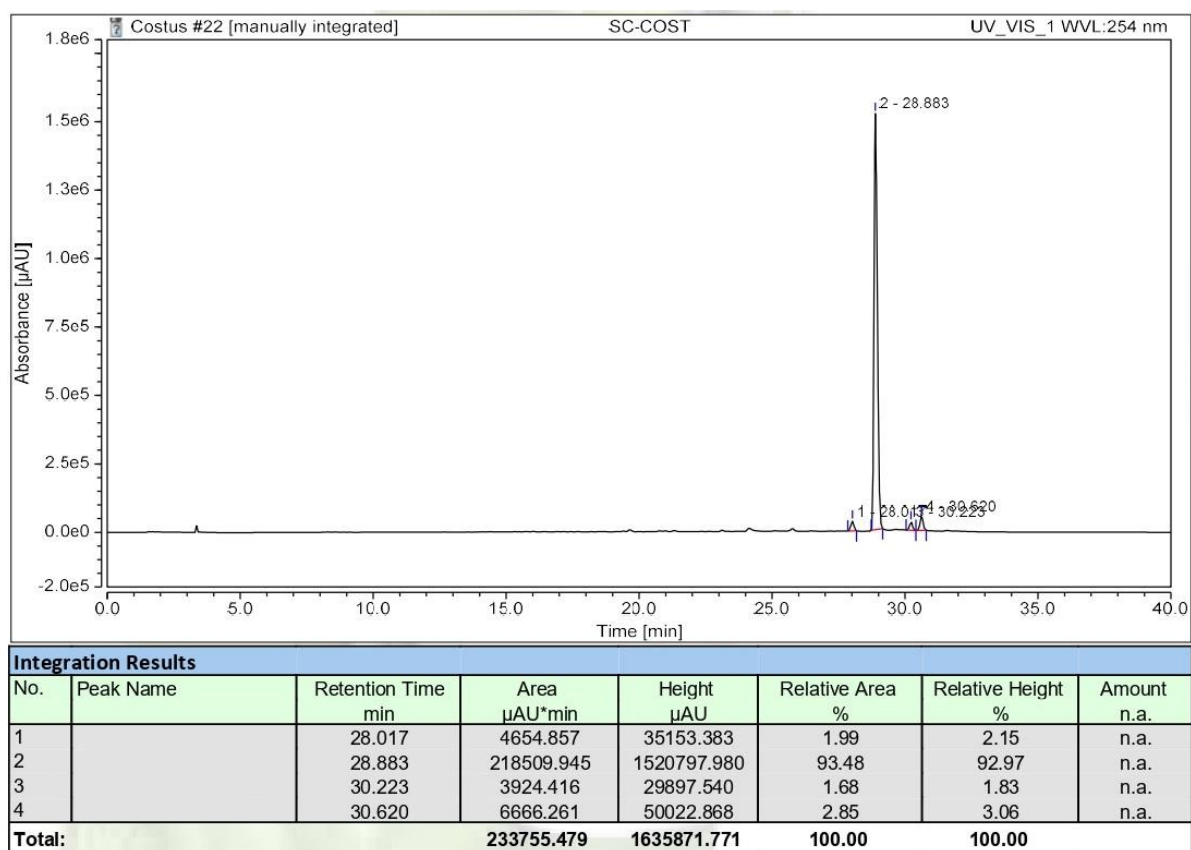


Fig S10: Purity profile of compound Costunolide.

Compound 3: Syringin

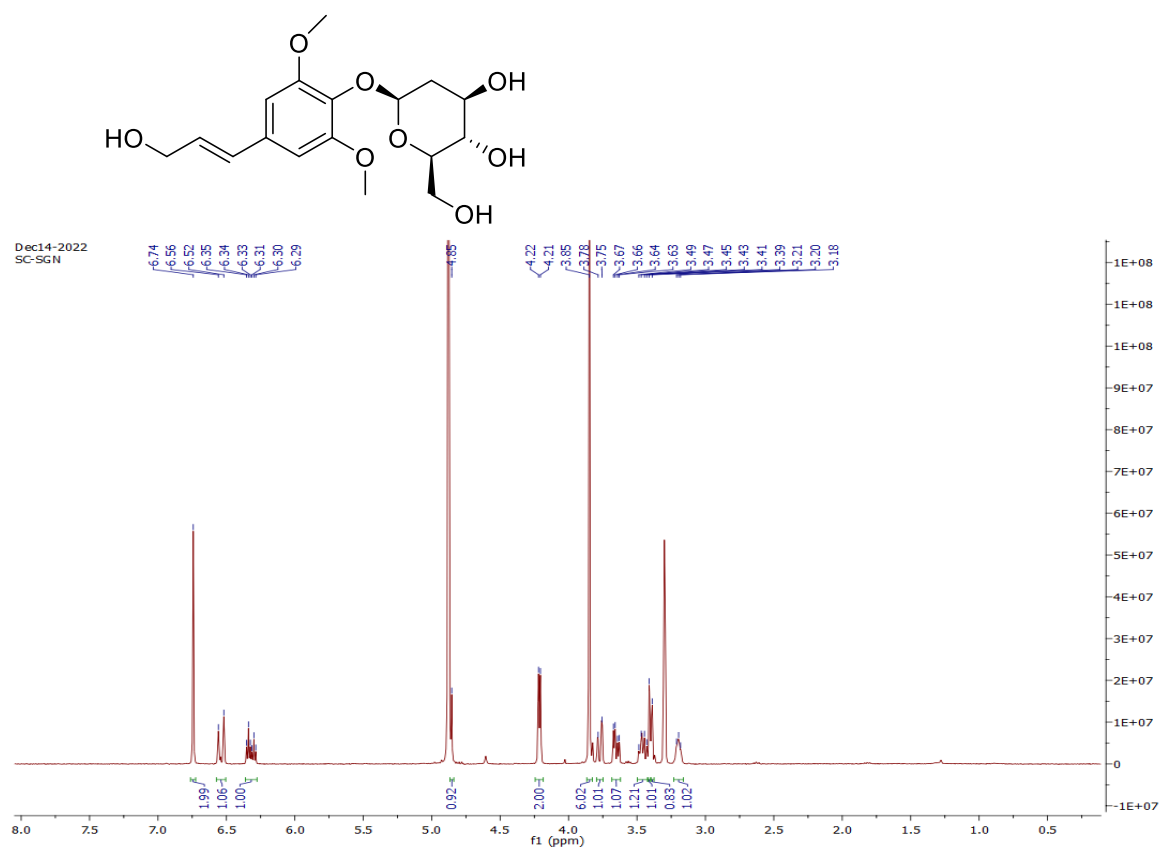


Figure S11: ¹H NMR spectra of Syringin (CDCl₃, 400 MHz).

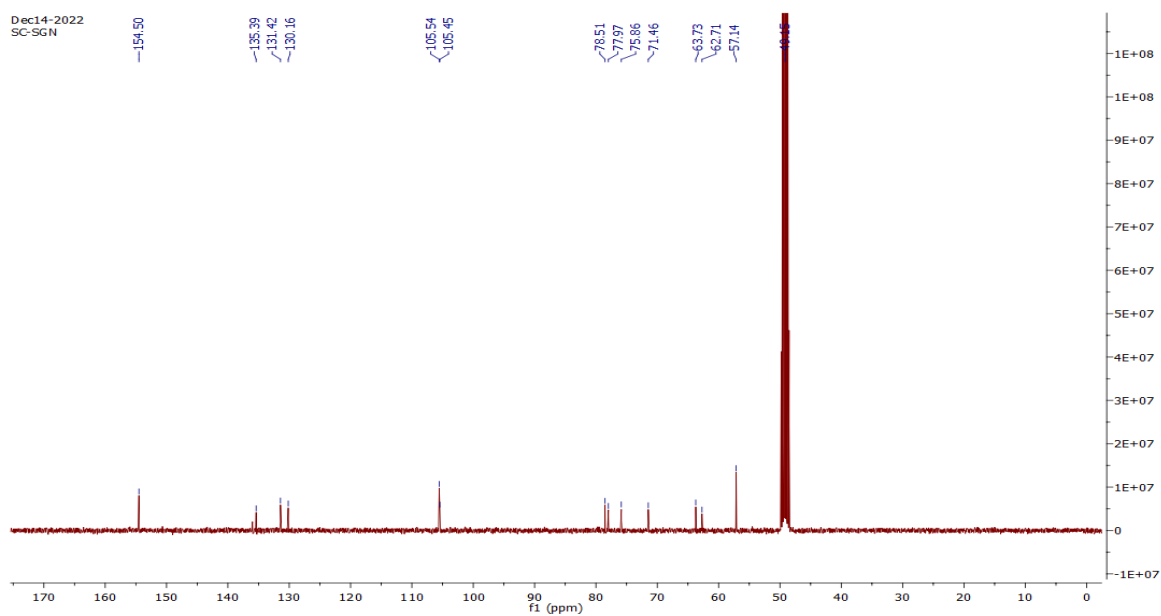


Figure S12: ¹³C NMR spectra of Syringin (CD₃OD, 100 MHz).

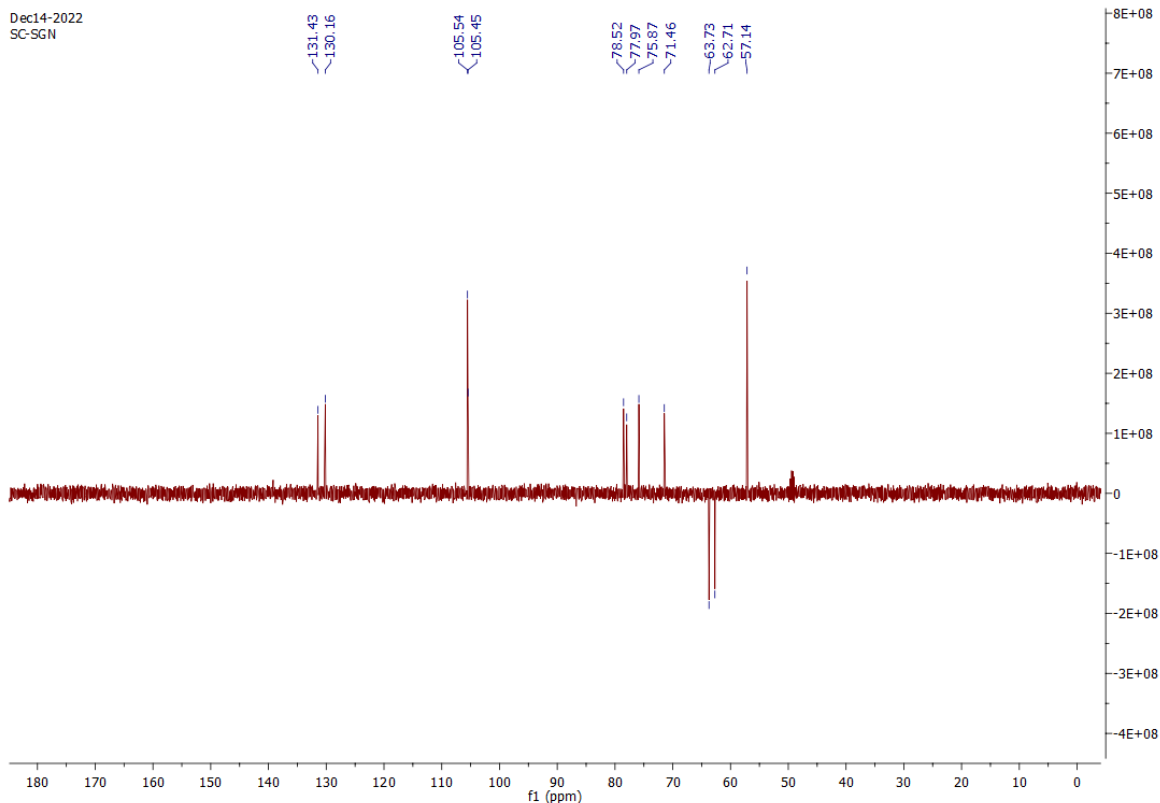


Figure S13: DEPT spectra of Syringin (CD₃OD, 400 MHz).

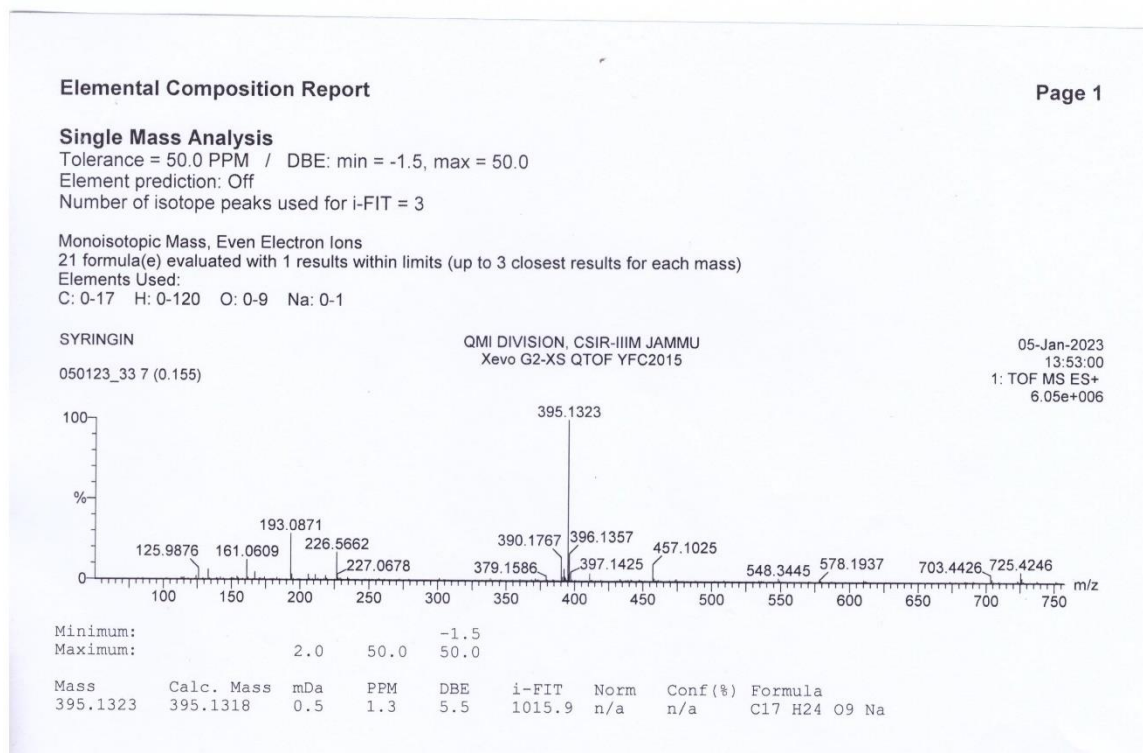


Figure S14: HRMS of Syringin (CD₃OD, 400 MHz).

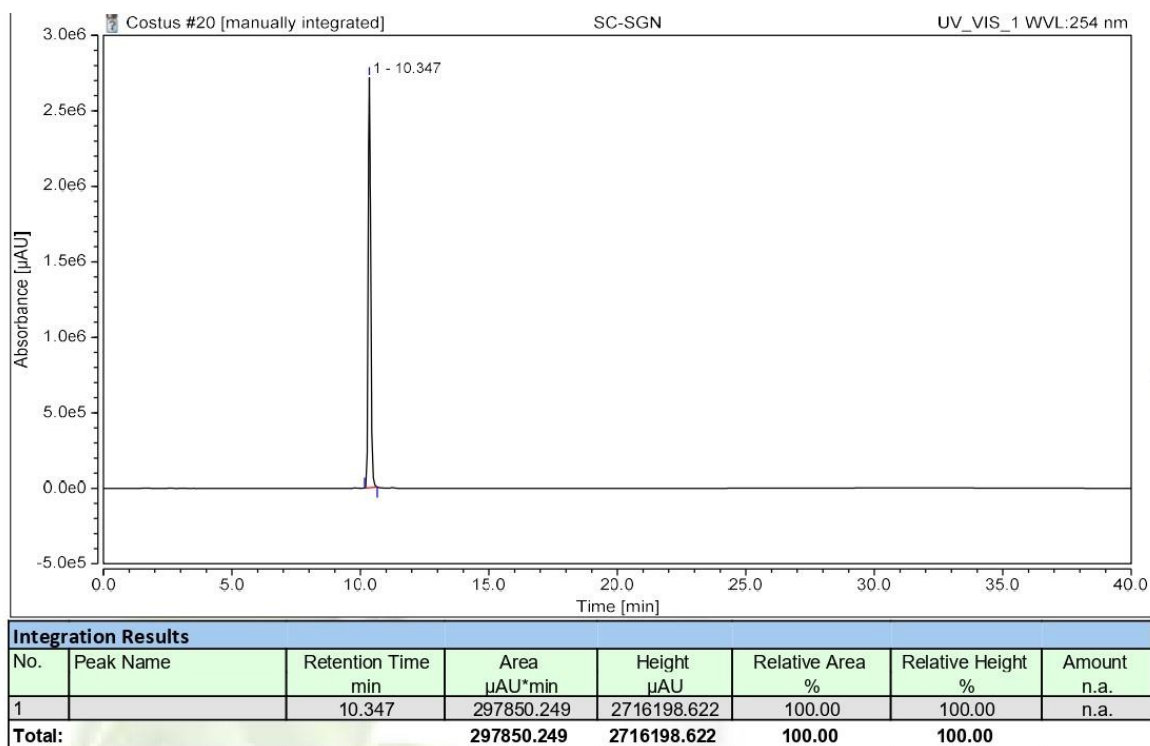


Fig S15: Purity profile of compound Syringin.

Compound 4: 5-Hydroxymethyl-2-furaldehyde

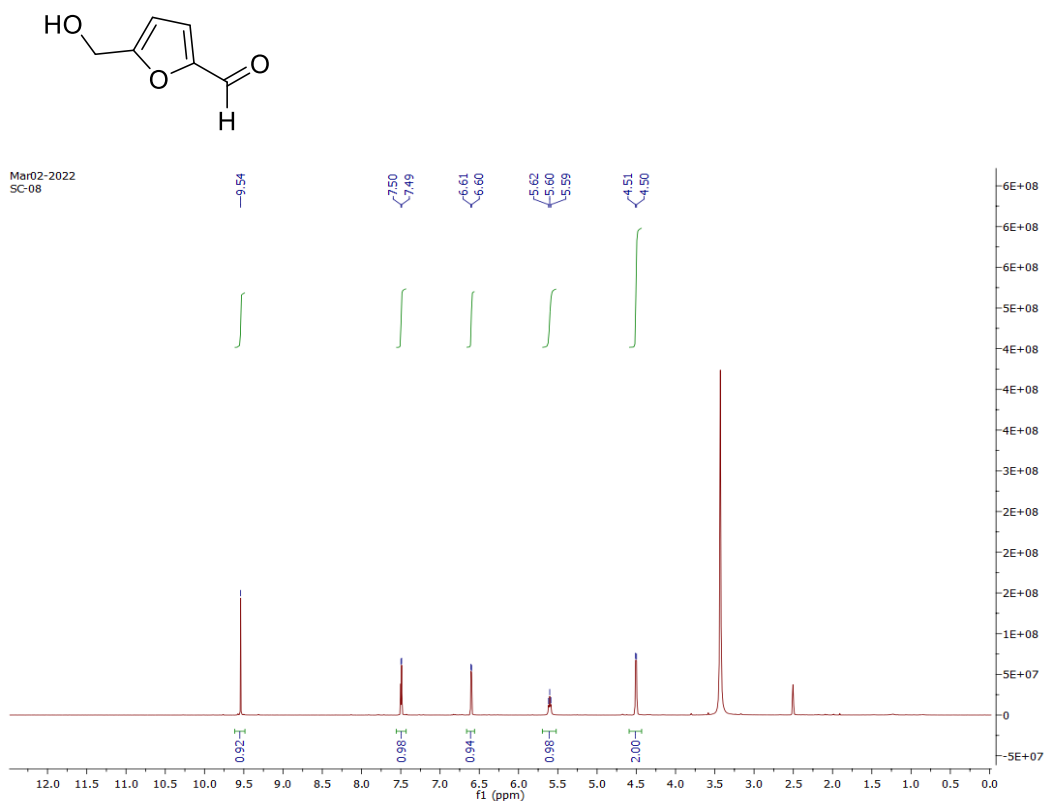


Figure S16: ^1H NMR spectra of 5-Hydroxymethyl-2-furaldehyde (DMSO d_6 , 400 MHz).

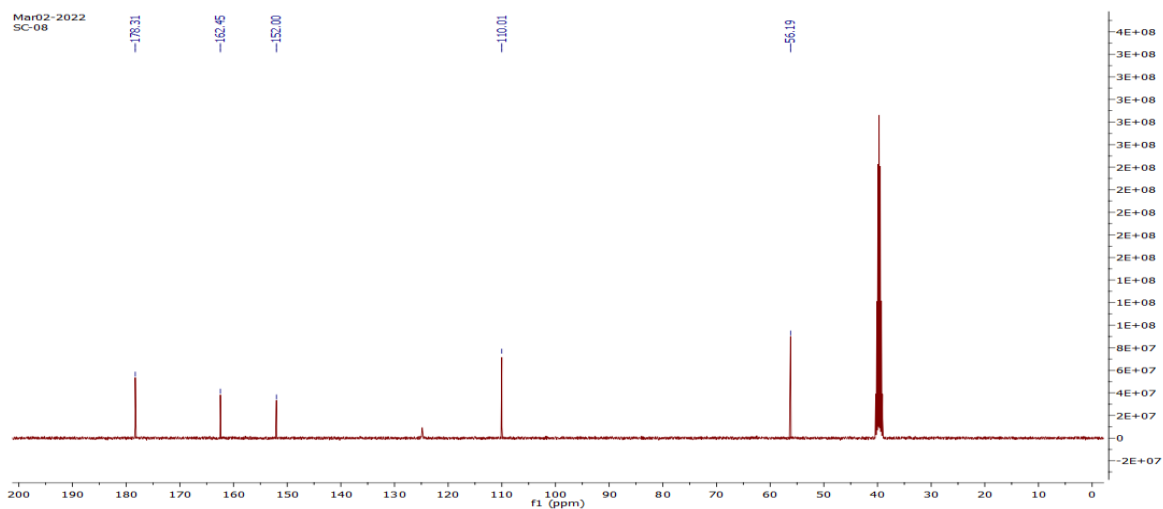


Figure S17: ^{13}C NMR spectra of 5-Hydroxymethyl-2-furaldehyde (DMSO d_6 , 100 MHz).

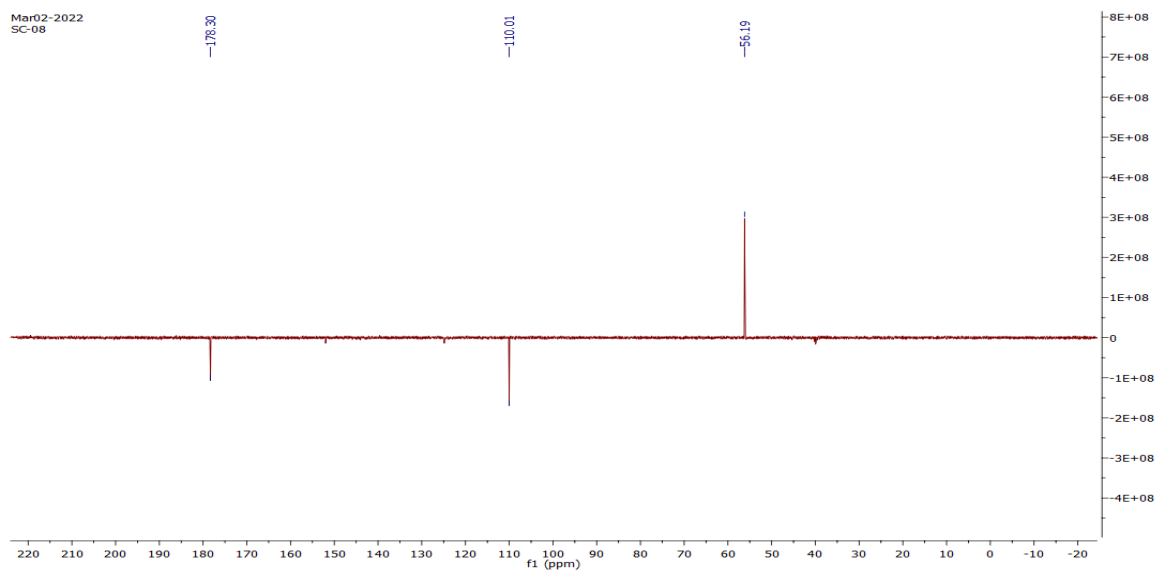


Figure S18: DEPT spectra of 5-Hydroxymethyl-2-furaldehyde (DMSO d_6 , 400 MHz).

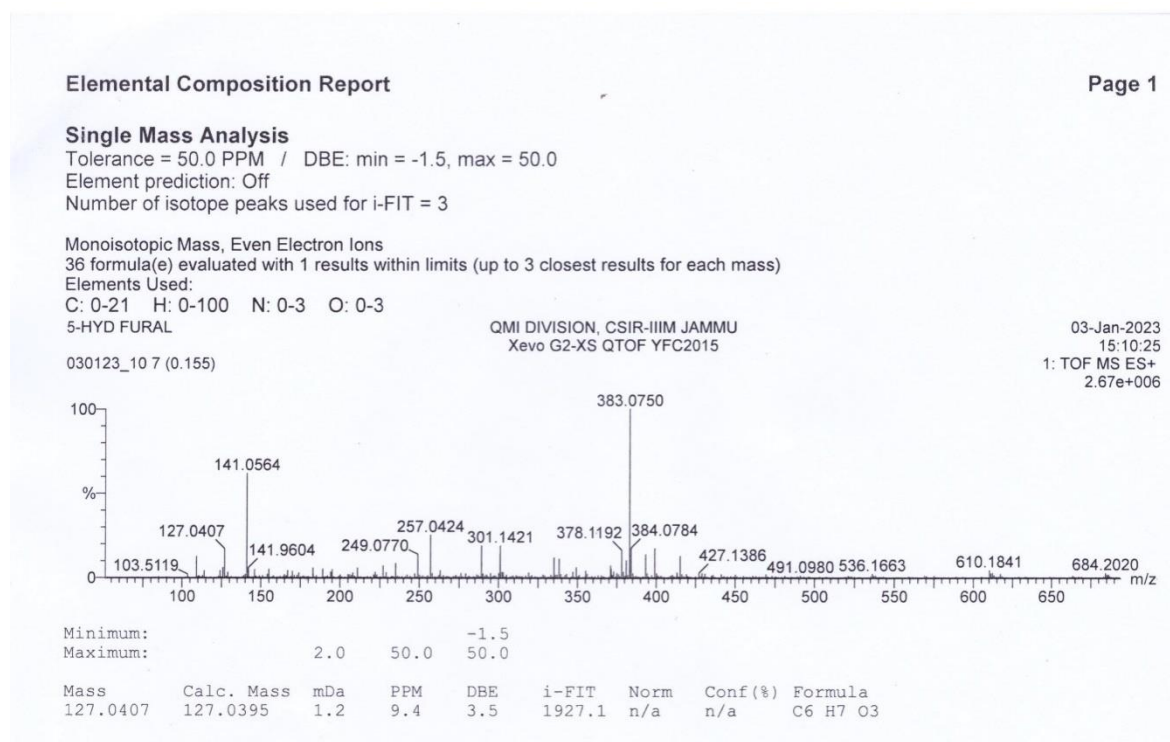


Figure S19: HRMS of 5-Hydroxymethyl-2-furaldehyde.

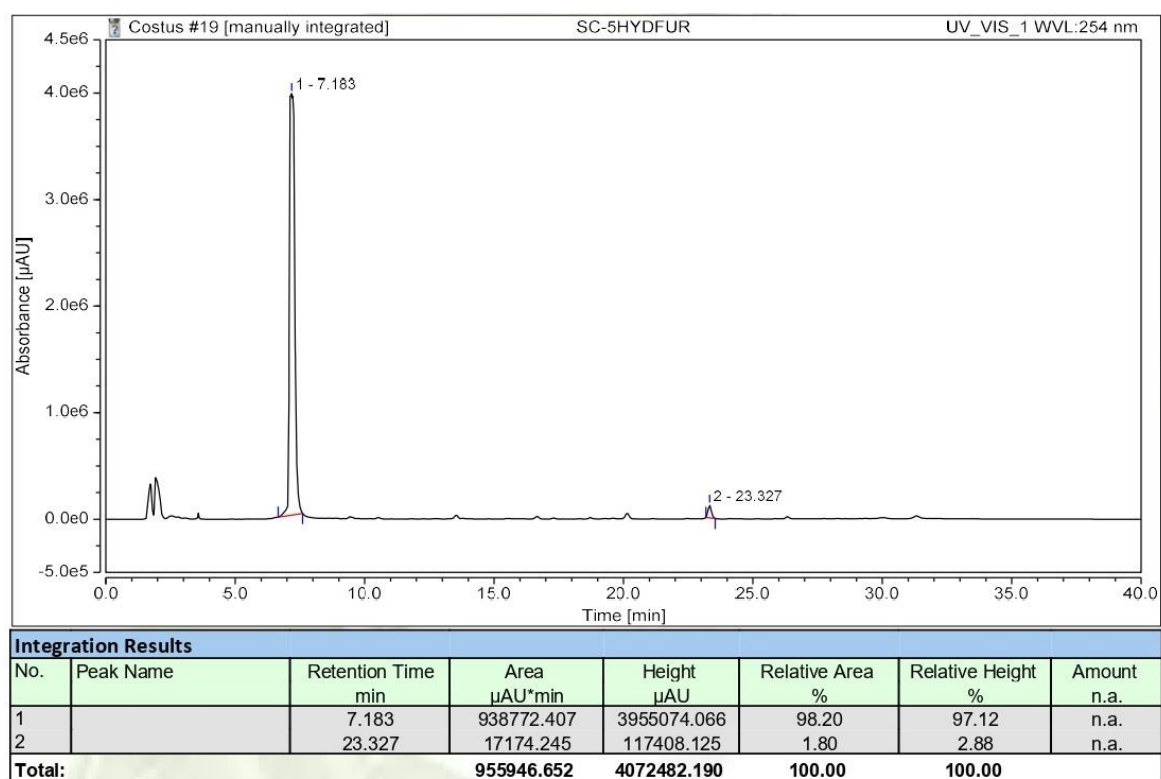


Fig S20: Purity profile of compound 5-Hydroxymethyl-2-furaldehyde.

CALIBRATION PLOTS

Number of disabled Calibration Points 0

R-Square

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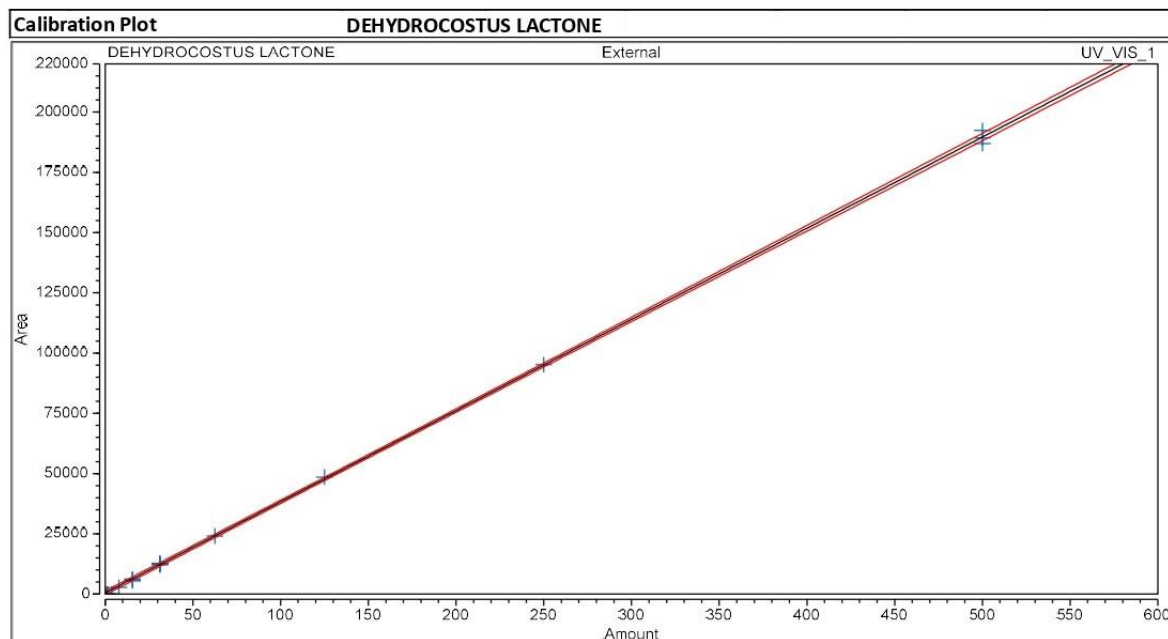


Fig S21: Calibration plot of compound Dehydrocostus lactone.

Number of disabled Calibration Points 0

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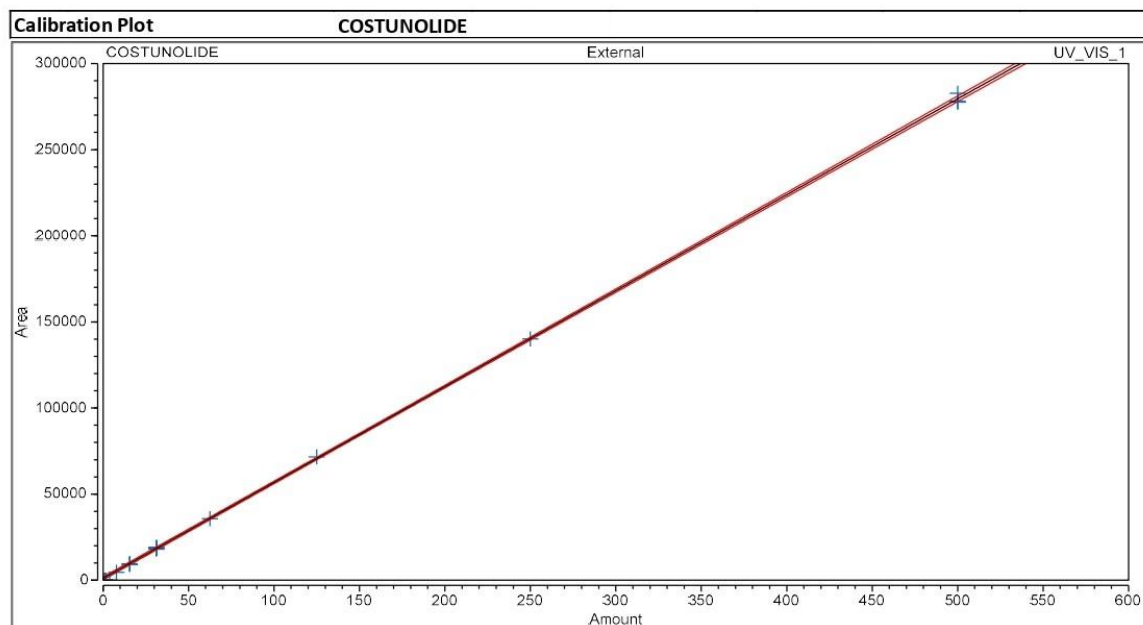


Fig S22: Calibration plot of compound Costunolide.

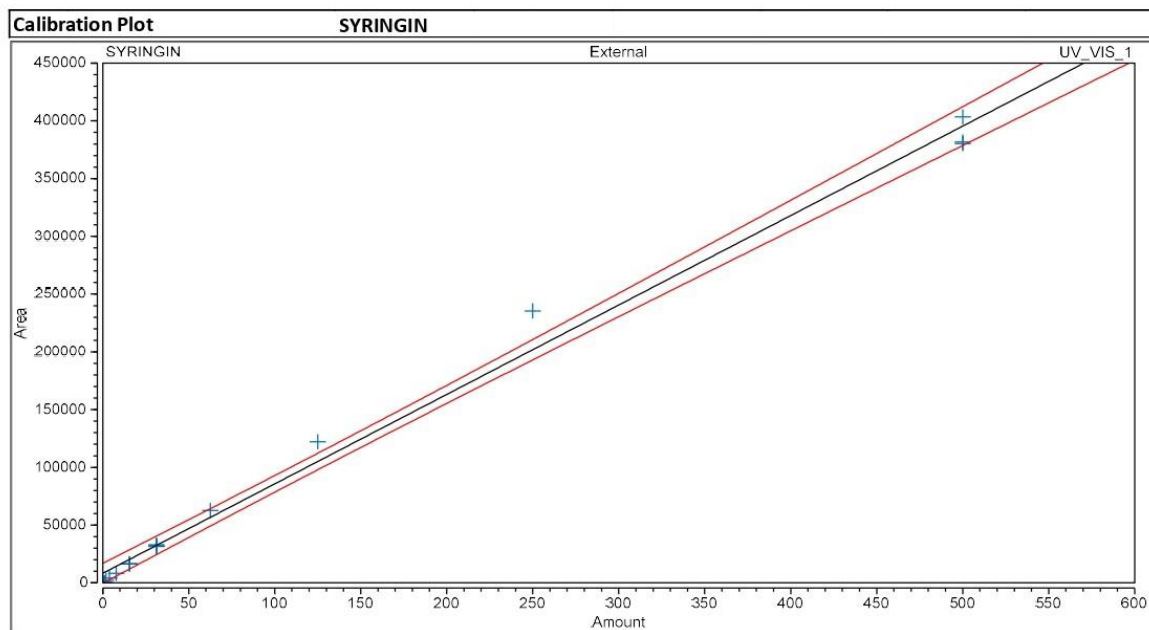


Fig S23: Calibration plot of compound Syringin.

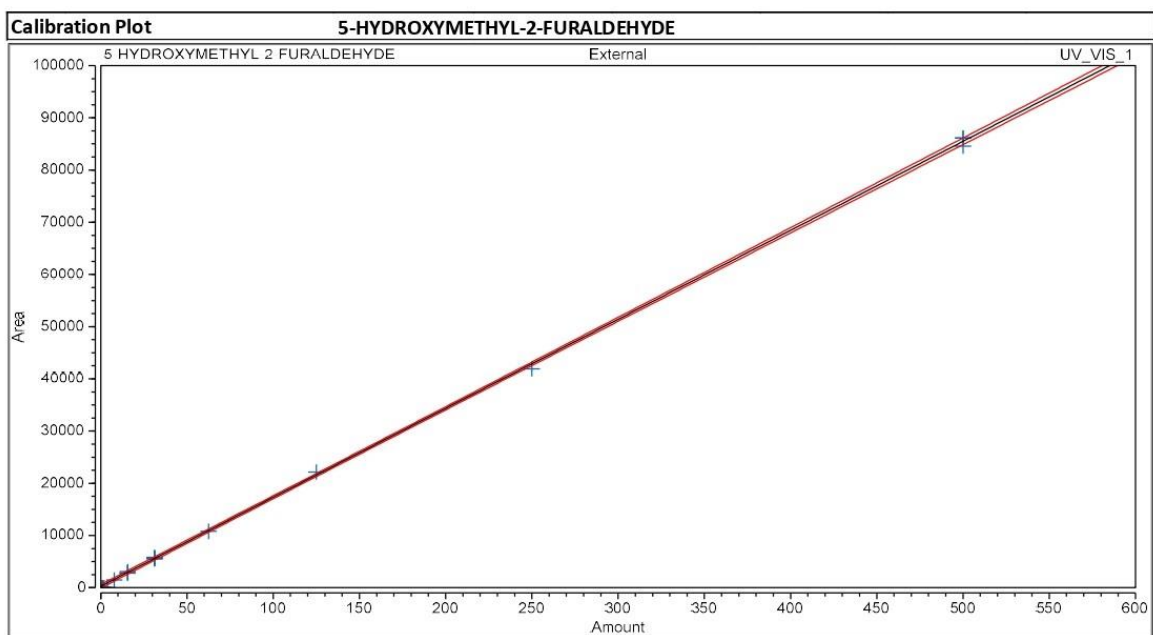


Fig S24: Calibration plot of compound 5-Hydroxymethyl-2-furaldehyde.

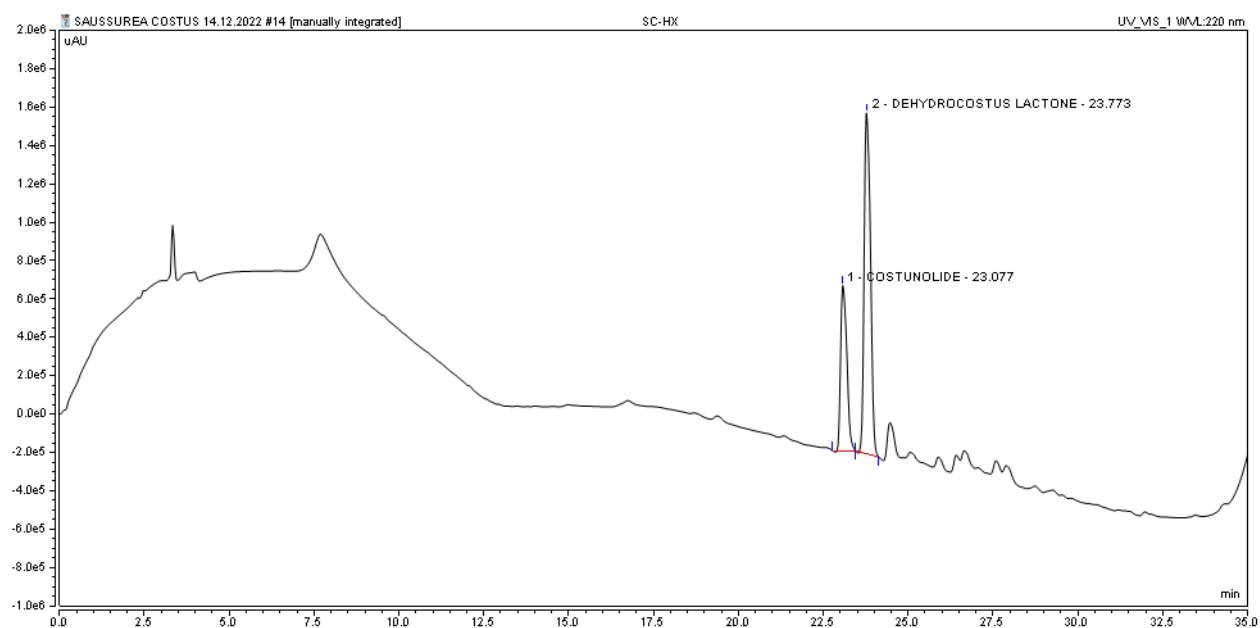


Fig S25: HPLC Chromatogram of Hexane fraction.

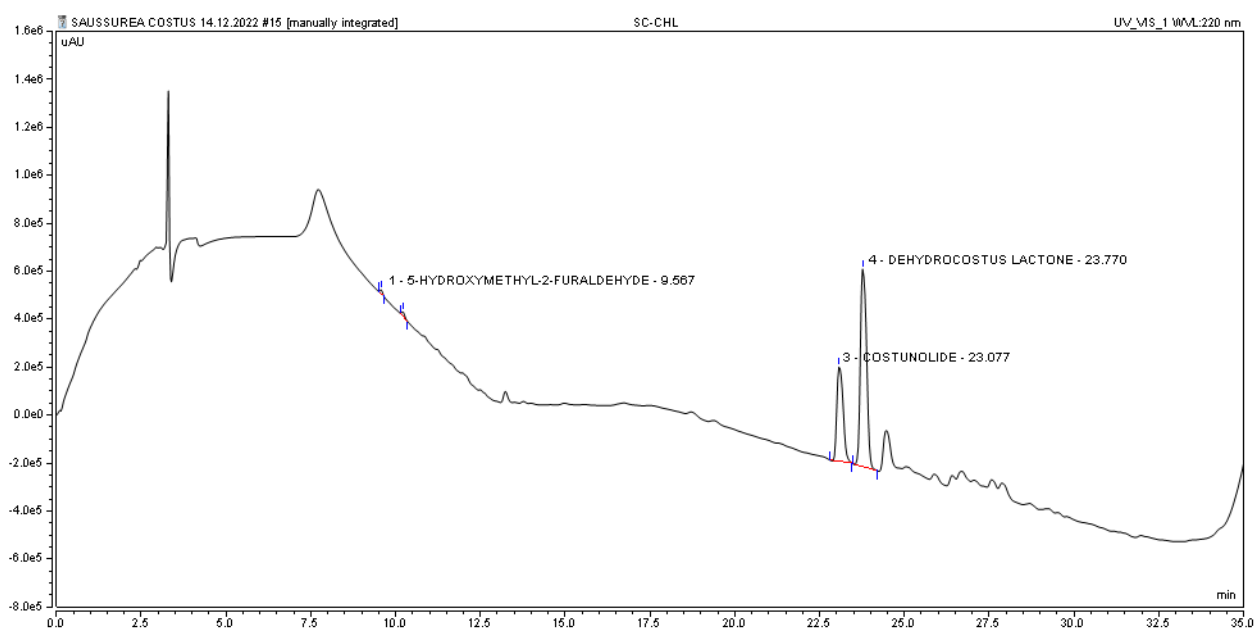


Fig S26: HPLC Chromatogram of Chloroform fraction.

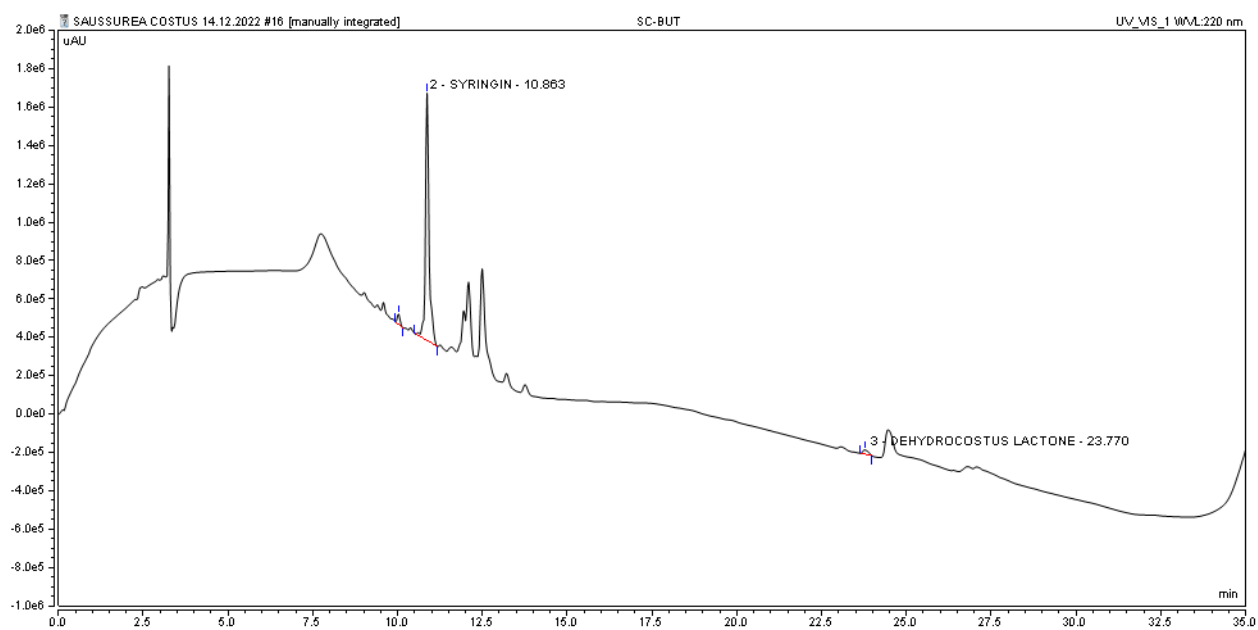


Fig S27: HPLC Chromatogram of Butanol fraction.