

Supplementary Material

**DESREPLICACIÓN DE ALCALOIDES ISOQUINOLÍNICOS DE *Duguetia quitarensis* (BENTH.) (ANNONACEAE) Y
EVALUACIÓN DE LA ACTIVIDAD FITOTÓXICA**

**DEREPLICATION OF ISOQUINOLINE ALKALOIDS FROM *Duguetia quitarensis* (BENTH.) (ANNONACEAE) AND
EVALUATION OF PHYTOTOXIC ACTIVITY."**

Márcia Bay¹ <https://orcid.org/0000-0001-5109-0497>

Vitória Carolina da Silva Nery¹ <https://orcid.org/0000-0002-2002-9690>

Hugo Rodrigues da Silva¹ <https://orcid.org/0009-0003-5879-2557>

Anderson Rogério dos Santos^{1*} <https://orcid.org/0000-0001-7041-1401>

¹Federal Institute of Education, Science and Technology of Rondônia, Campus Calama, Porto Velho, Rondônia, Brazil

* Autor para la correspondência: anrogerquimica@gmail.com

List of Figures

Fig.S1. Mass spectrum of the methanolic extract from *D. quitarensis* by direct infusion

Fig.S2. MS/MS spectrum of the normuciferine (1)

Fig.S3. MS/MS spectrum of the nuciferine (2)

Fig.S4. MS/MS spectrum of the corytuberine (3)

Fig.S5. MS/MS spectrum of the nandigerine (4)

Fig.S6. MS/MS spectrum of the *N*-methylcoclaurine (5)

Fig.S7. MS/MS spectrum of the armepavine (6)

Fig.S8. MS/MS spectrum of the guatterine (7)

Fig.S9. MS/MS spectrum of the *N*-oxide guatterine (8)

Fig. S10. MS/MS spectrum of the lysicamine (9)

Fig. S11. MS/MS spectrum of the liriodenine (10)

Schema list

Scheme S1. Proposal for fragmentation of the normuciferine (1)

Scheme S2. Proposal for fragmentation of the nuciferine (2)

Scheme S3. Proposal for fragmentation of the corytuberine (3)

Scheme S4. Proposal for fragmentation of the nandigerine (4)

Scheme S5. Proposal for fragmentation of the *N*-methylcocclaurine (5)

Scheme S6. Proposal for fragmentation of the Armepavine (6)

Scheme S7. Proposal of fragmentation of the guatterine (7)

Scheme S8. Proposal of fragmentation of the *N*-oxide guatterine (8)

Scheme S9. Proposal of fragmentation of the lysicamine (9)

Scheme S10. Proposal of fragmentation of the liriodenine (10)

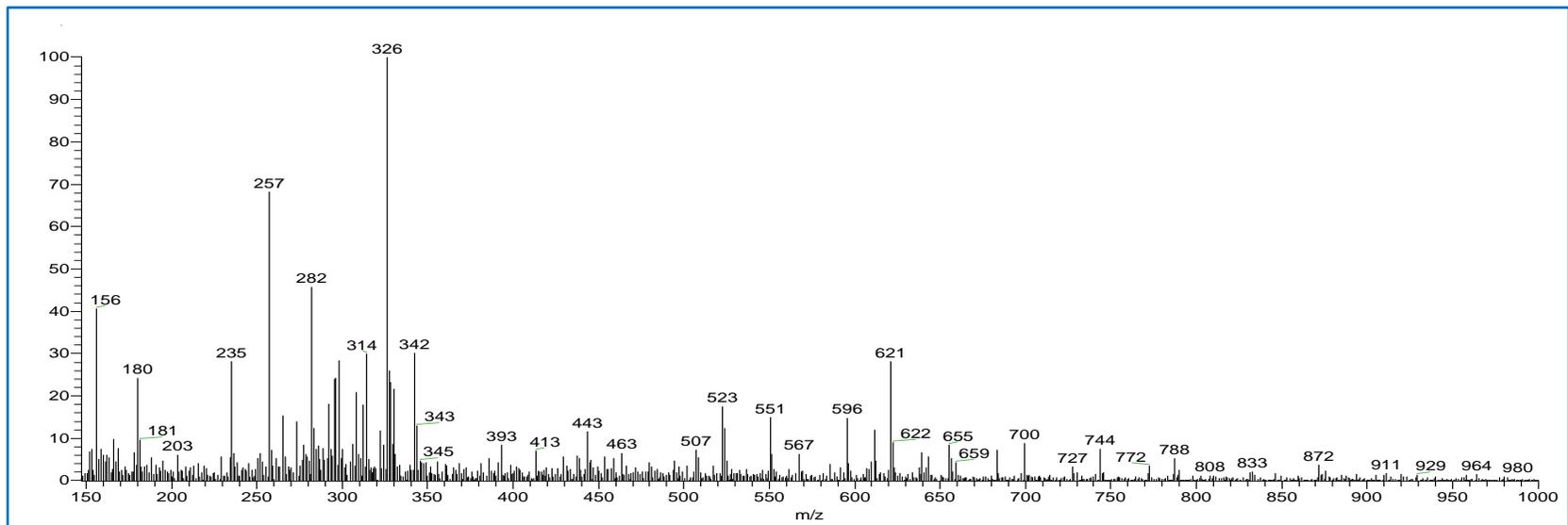


Fig S1. Mass spectrum of the methanolic extract from *D. quitarensis* by direct infusion ESI-IT-MS/MSⁿ

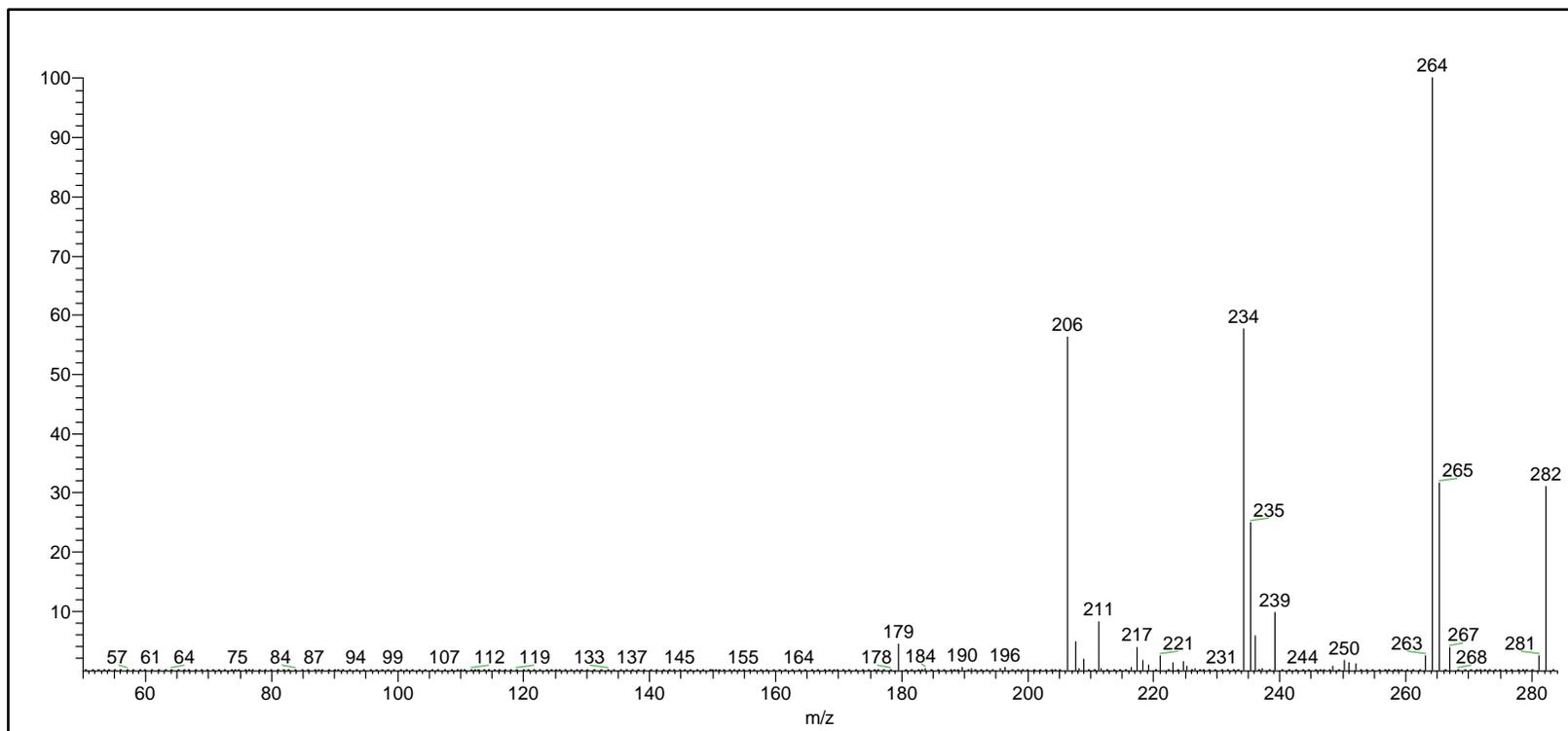
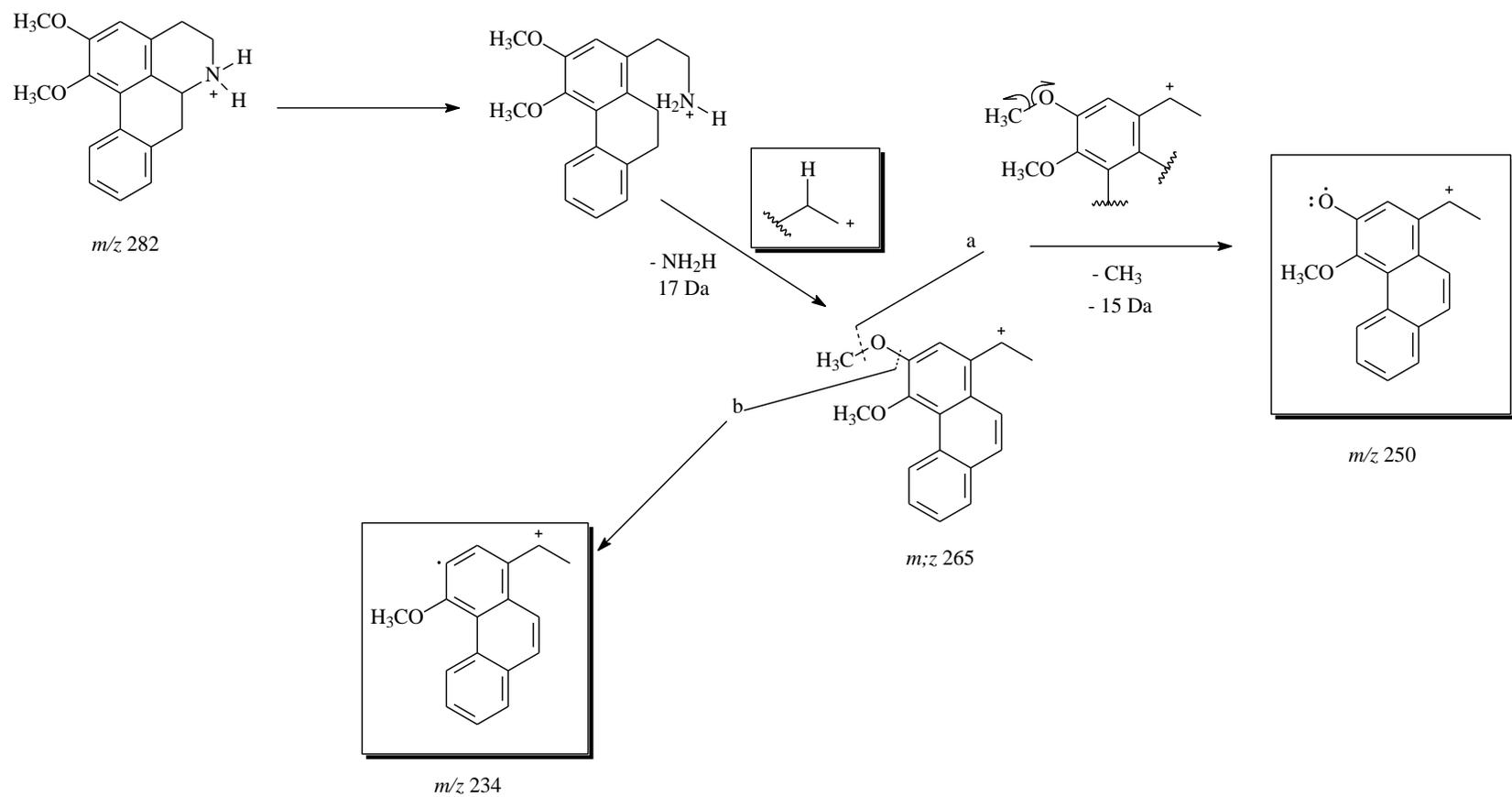


Fig S2. MS/MS spectrum of the nornuciferine (**1**)



Scheme S1. Proposal for fragmentation of the norruciferine (**1**) according to (de Lima et al., 2020)

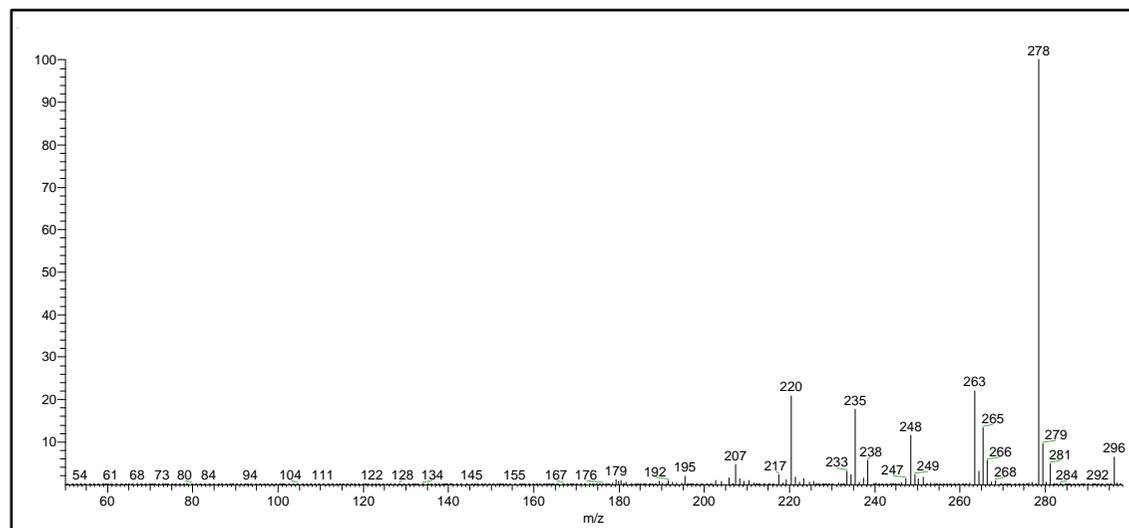
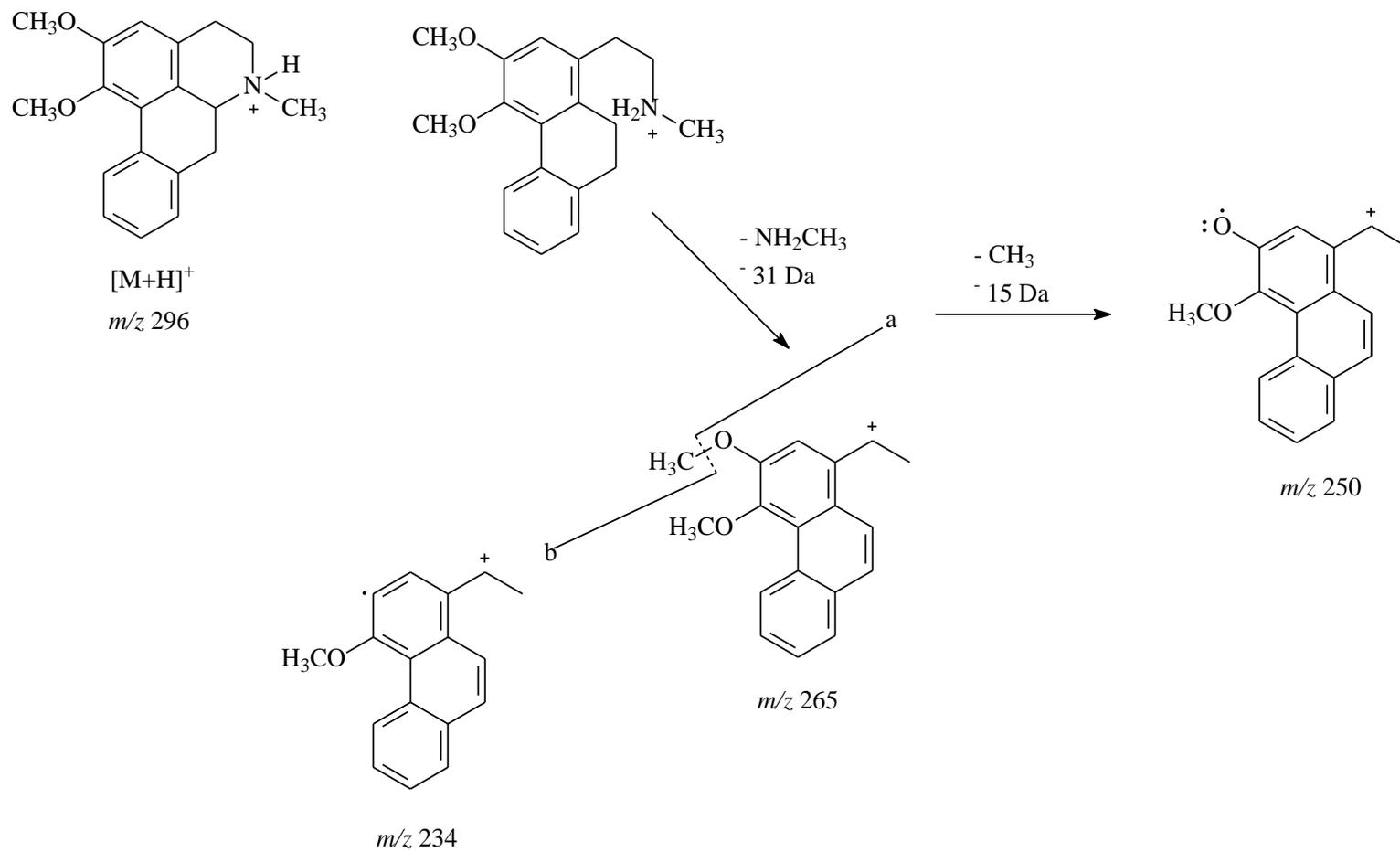


Fig. S3. MS/MS spectrum of the nuciferine (2)



Scheme S2. Proposal for fragmentation of the nuciferine (**2**) based to (de Lima et al., 2020, Wang et al., 2021)

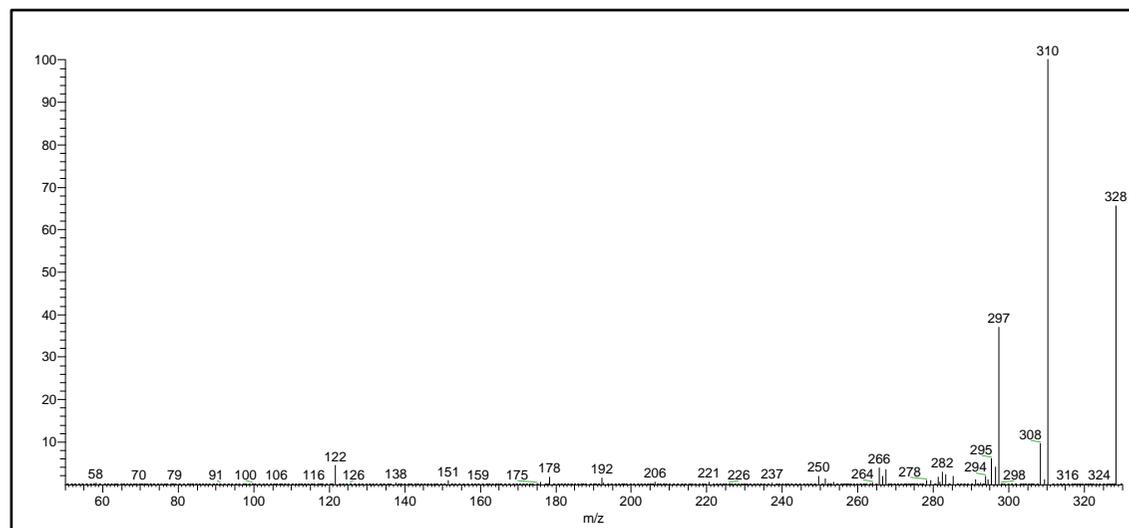
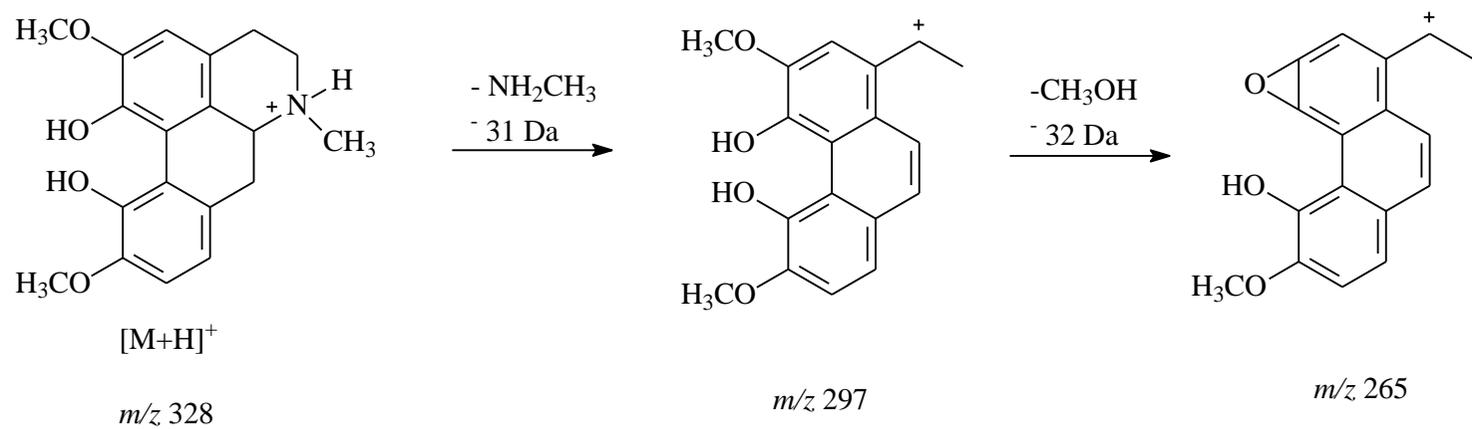


Fig. S4. MS/MS spectrum of the corytuberine (**3**)



Scheme S3. Proposal for fragmentation of the corytuberine (**3**) based to (Yan et al., 2013; Barakat et al., 2016; Marques, et al., 2013)

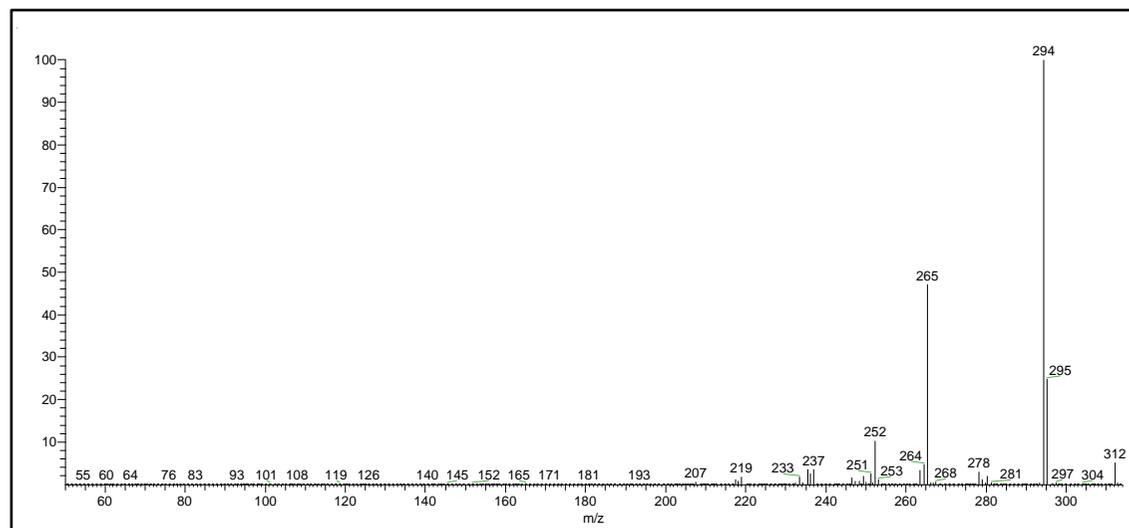
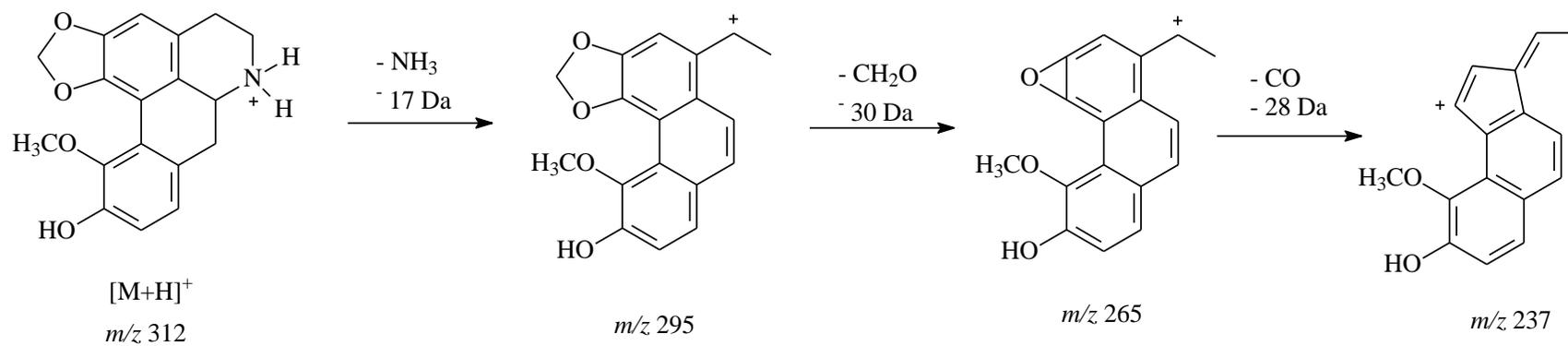


Fig. S5. MS/MS spectrum of the nandigerine (**4**)



Scheme S4. Proposal for fragmentation of the nandigerine (**4**) based to (Yan et al., 2013)

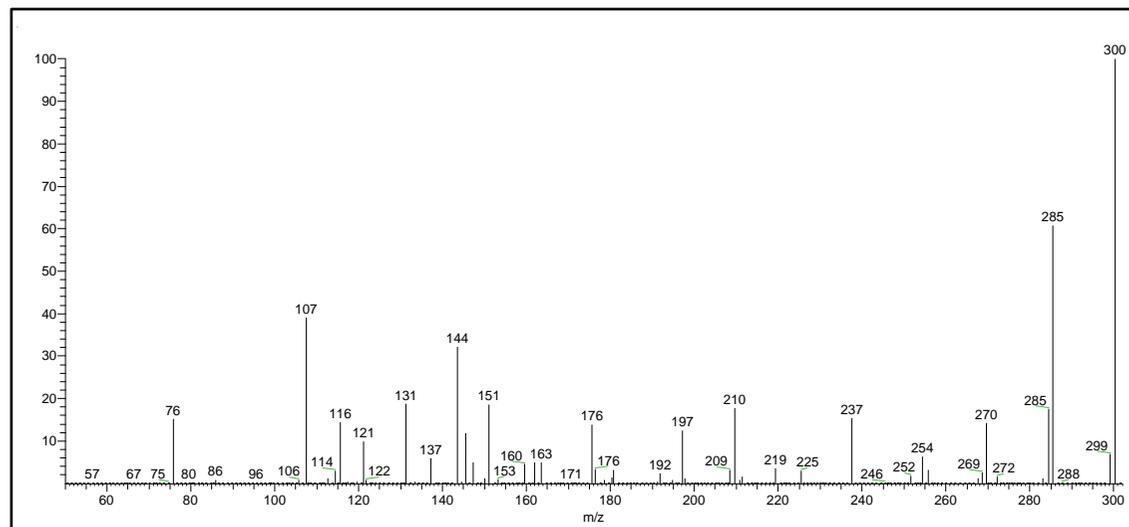
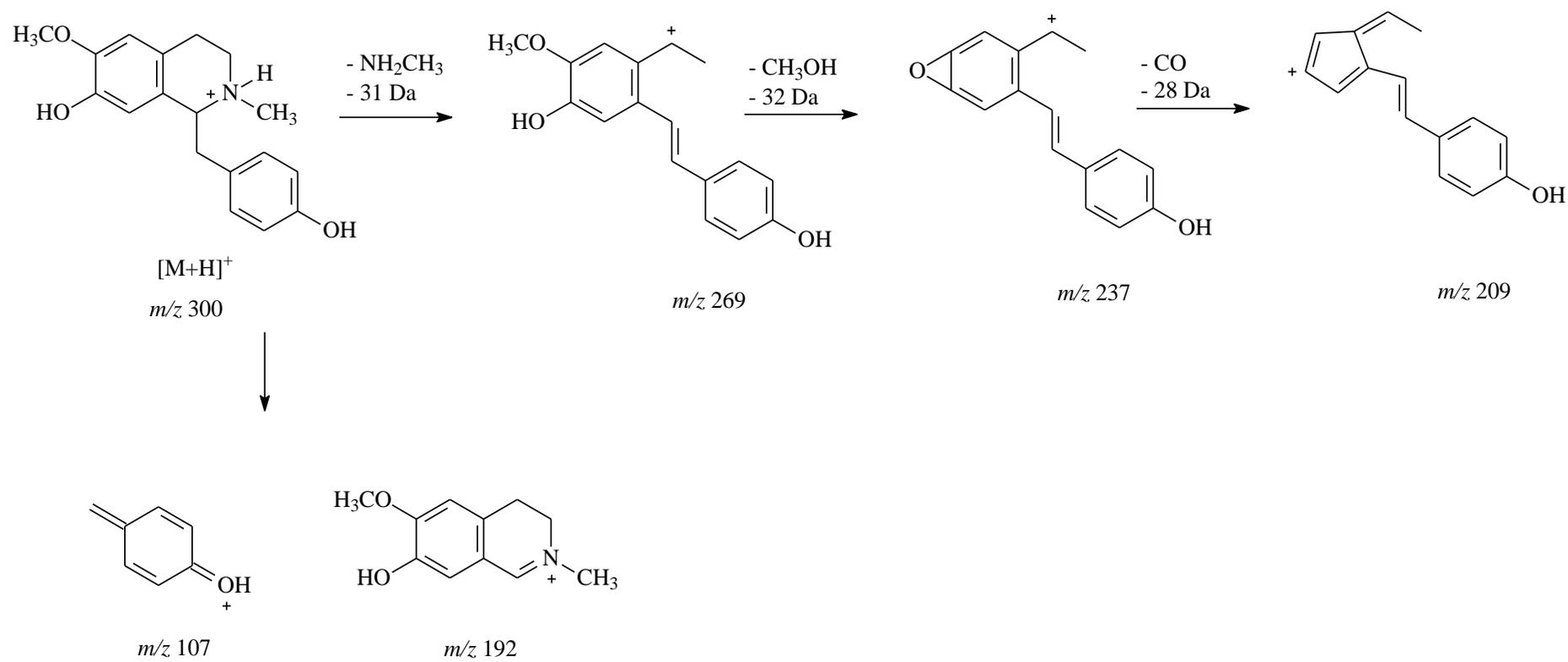


Fig. S6. MS/MS spectrum of the *N*-methylcoclaurine (**5**)



Scheme S5. Proposal for fragmentation of the *N*-methylcoclaurine (**5**) based to (Schmidt et al., 2005)

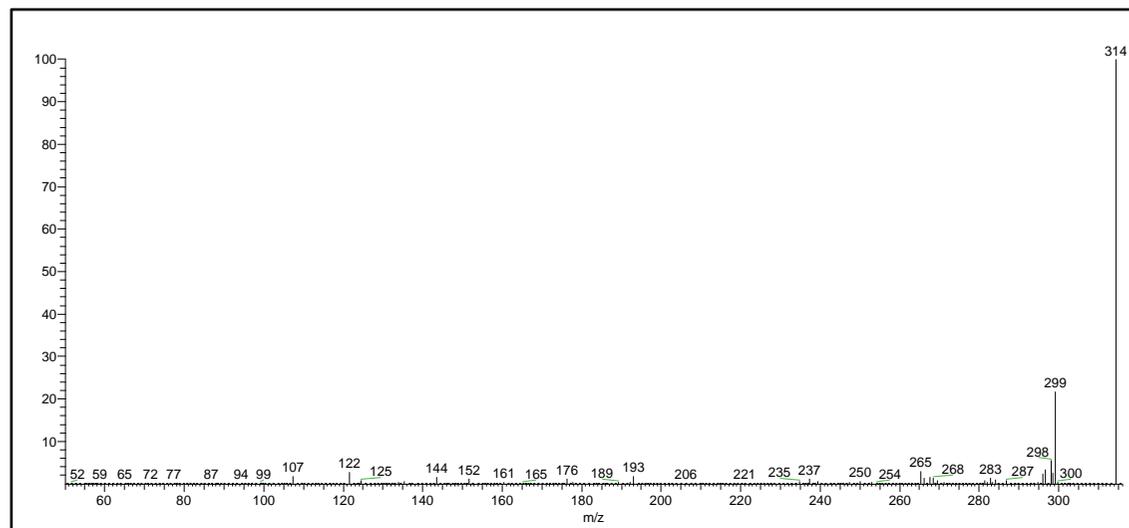
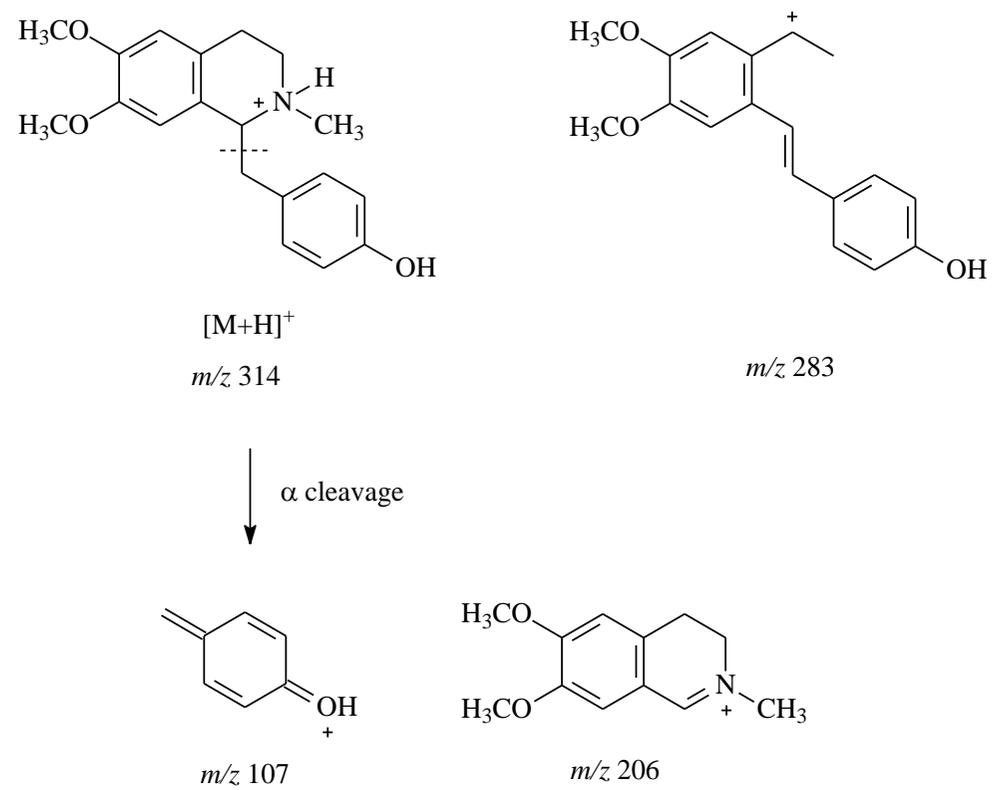


Fig. S7. MS/MS spectrum of the armepavine (**6**)



Scheme S6. Proposal for fragmentation of the Armepavine (**6**) according to (Wang et al., 2021)

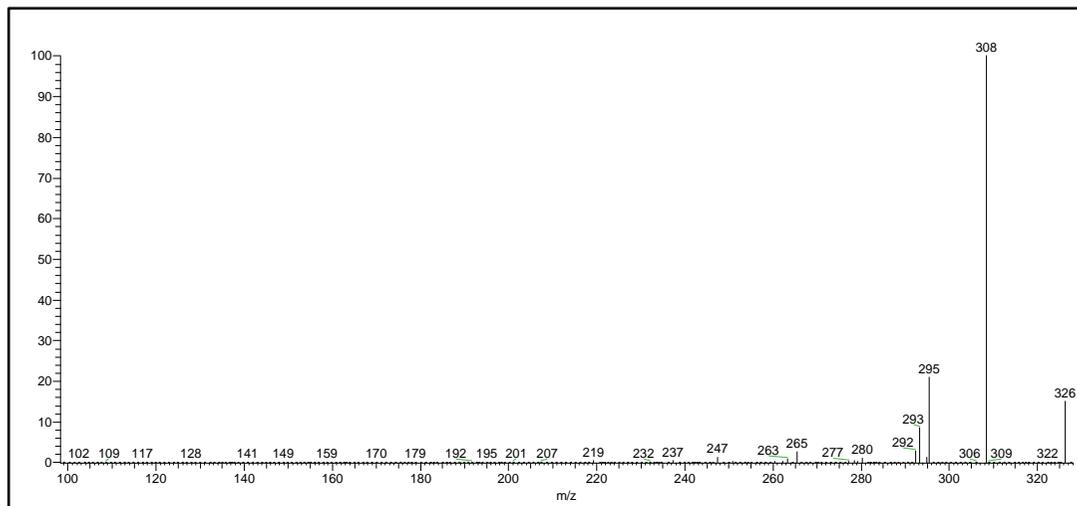
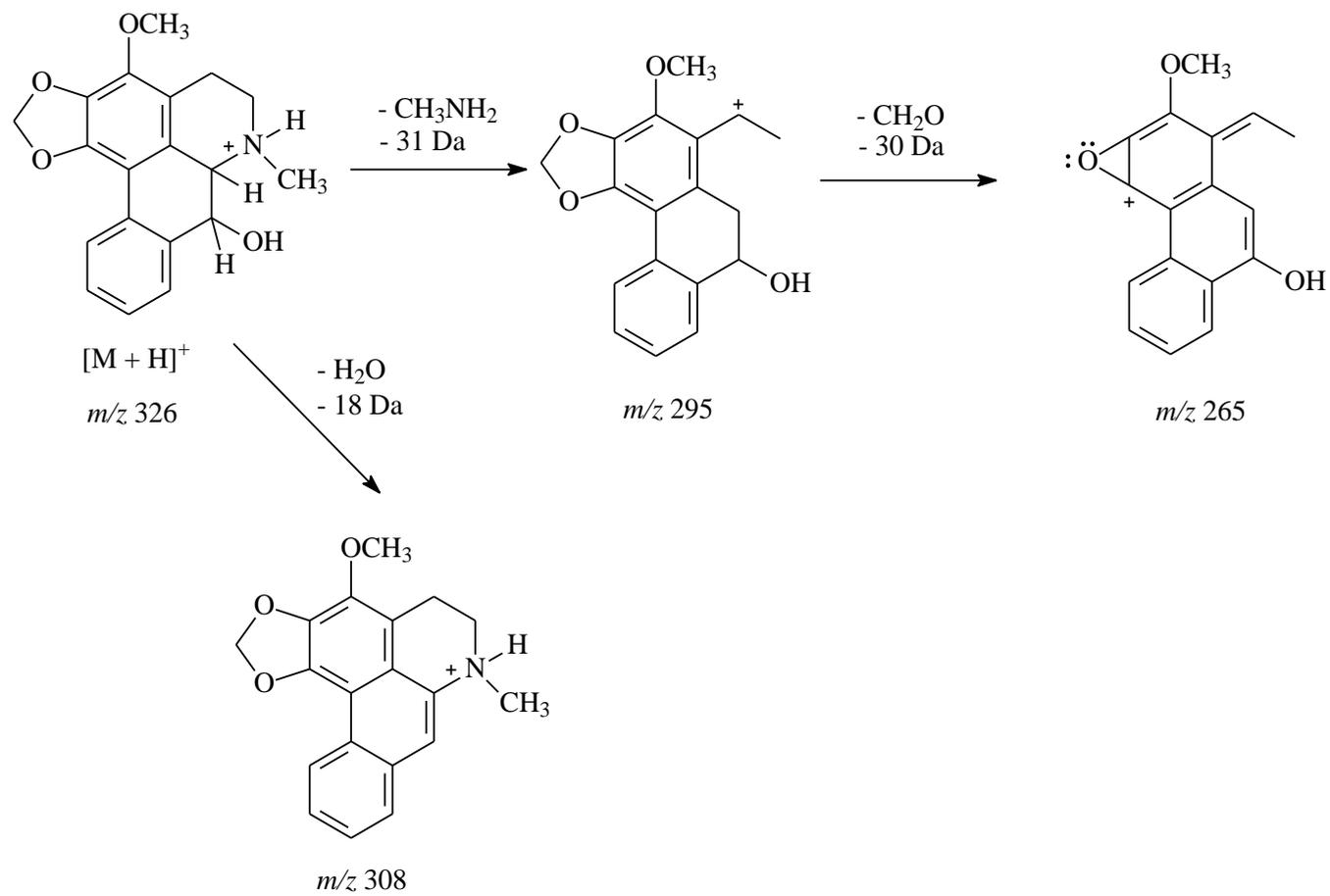


Fig. S8. MS/MS spectrum of the guatterine (7)



Scheme S7. Proposal of fragmentation of the guatterine (7)

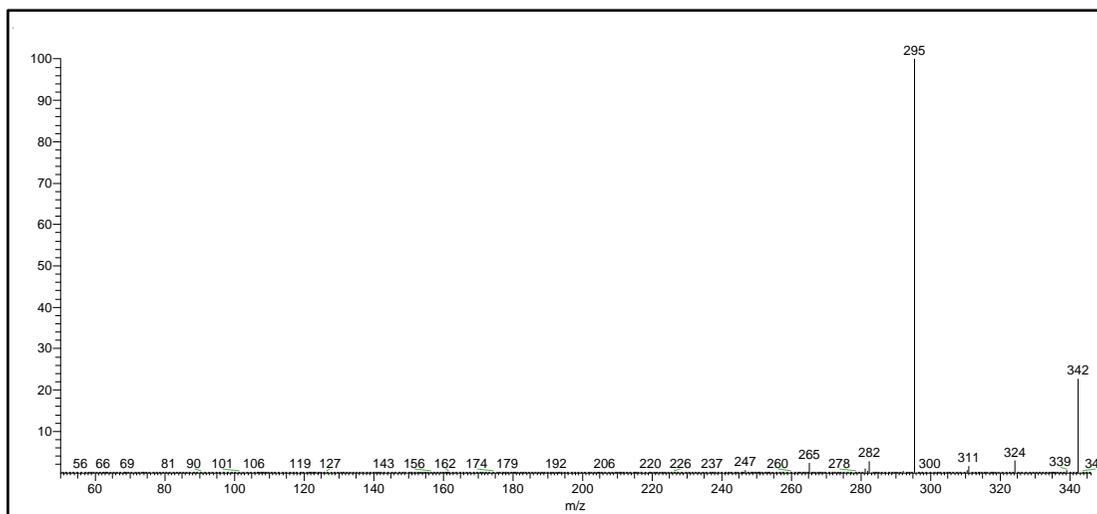
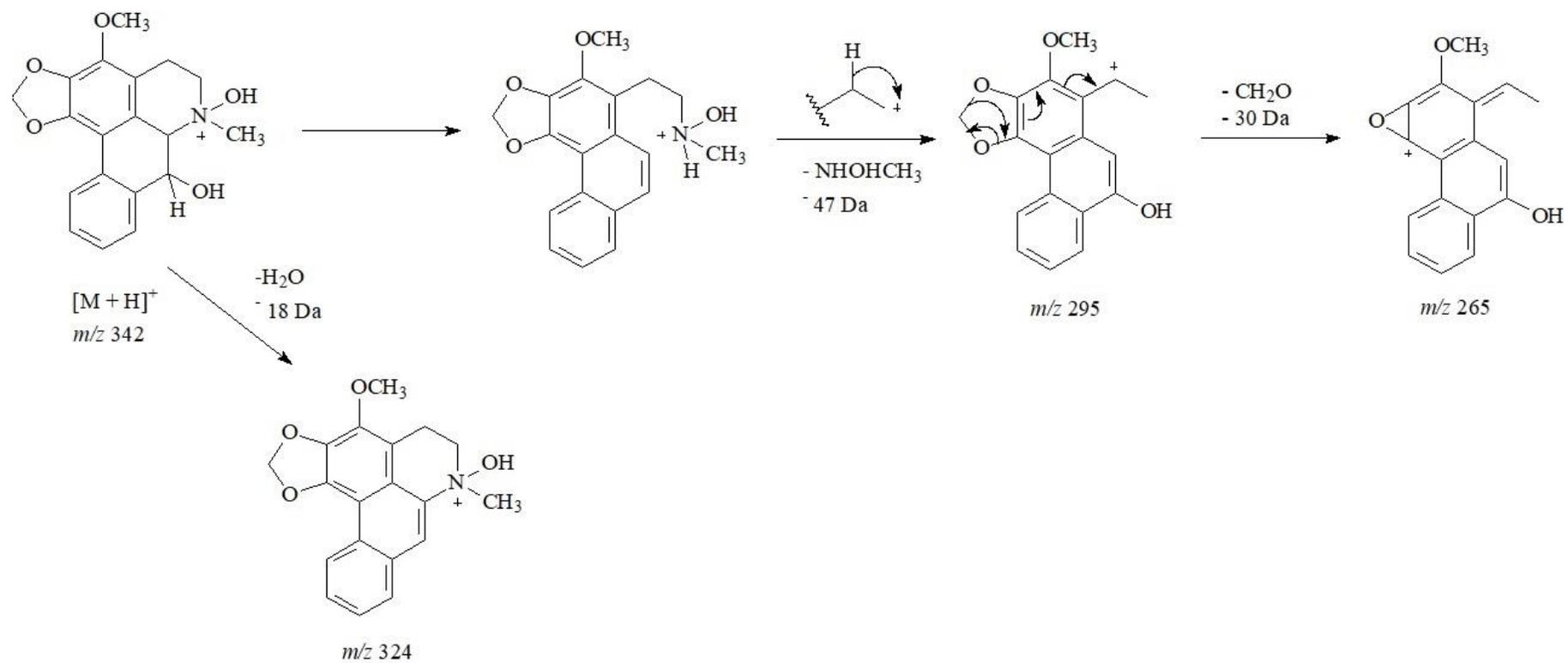


Fig. S9. MS/MS spectrum of the *N*-oxide guatterine (**8**)



Scheme S8. Proposal of fragmentation of the *N*-oxide gatterine (**8**) according to (de Souza et al., 2020)

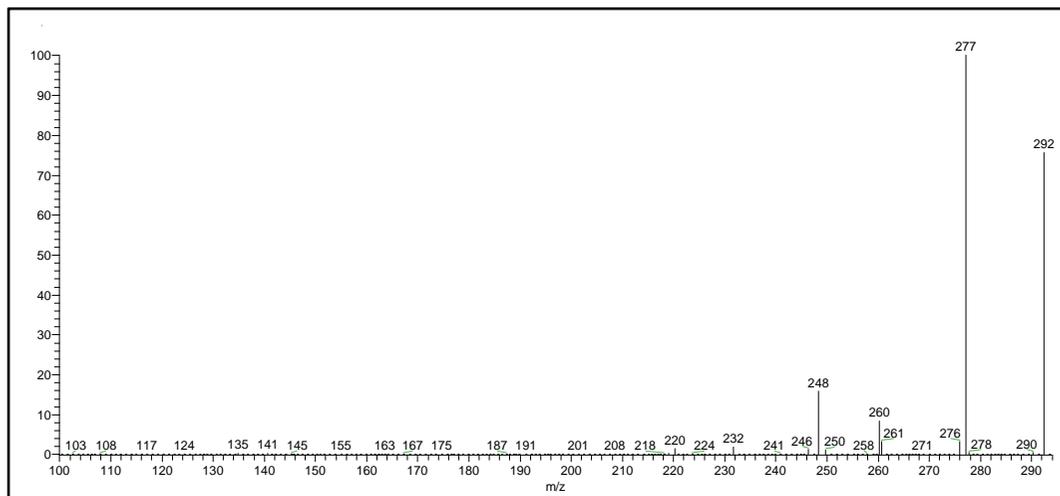
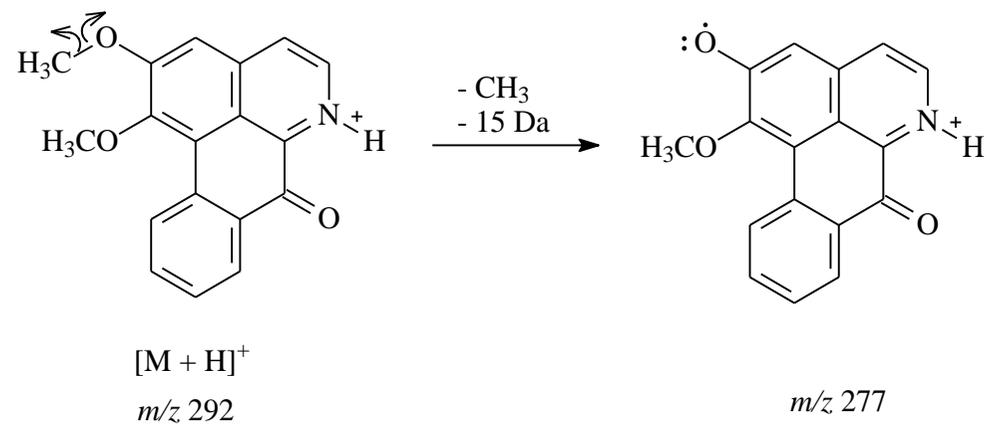


Fig. S10. MS/MS spectrum of the lysicamine (**9**)



Scheme S9. Proposal of fragmentation of the lysicamine (**9**) according to (de Lima et al., 2020)

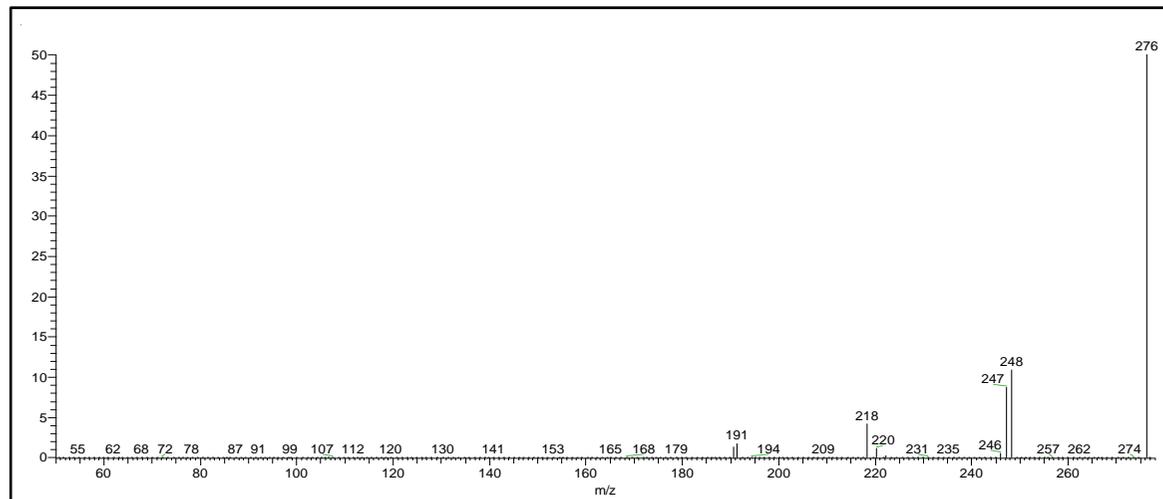
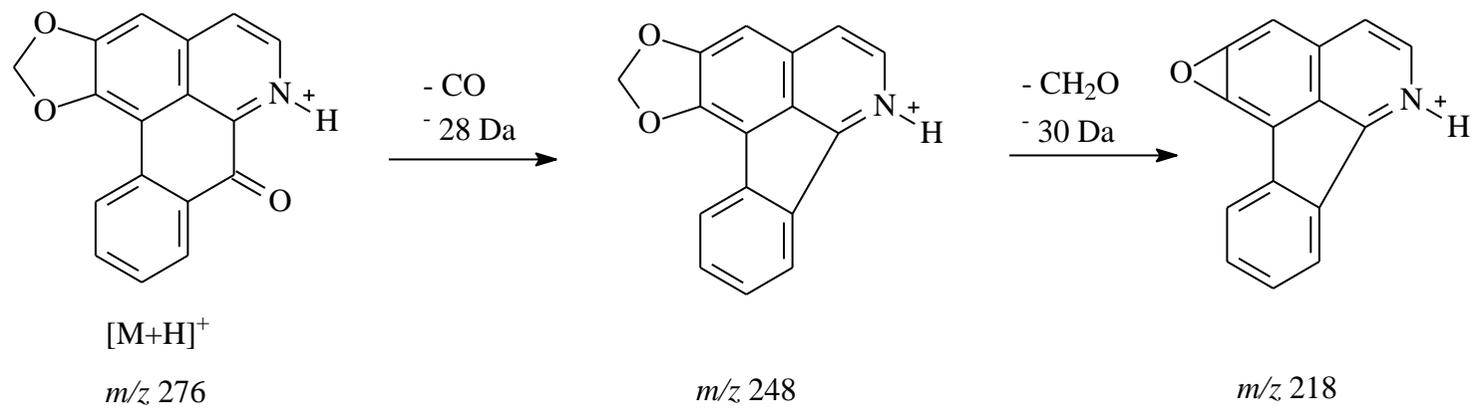


Fig. S11. MS/MS spectrum of the liriodenine (**10**)



Scheme S10. Proposal of fragmentation of the liriodenine (**10**) according to (de Lima et al., 2020)