

Supplementary Table A Compounds used for stimulation in EAG experiments.

Compound	Chemical class	Purity	Purchased from*	Ecological relevance	References
Allyl isothiocyanate	sulfur compound	≥ 95%	Aldrich	Attractive to gravid females Found in some Brassica volatile organic compounds (VOC) profiles Stimulates oviposition	Wallbank & Wheatley, 1976; Finch, 1978; Finch & Skinner, 1982; Nottingham, 1988; Tuttle et al., 1988; Liu et al., 2018
Dimethyl disulfide	sulfur compound	≥ 99%	Aldrich	Reduces oviposition Found in some Brassica VOC profiles	Wallbank & Wheatley, 1976; Pierre et al., 2011; Kergunteuil et al., 2012; Lamy et al., 2017; Liu et al., 2018
cis-3-Hexenyl acetate	green leaf volatile	≥ 98%	Sigma-Aldrich	Main compound of attractive Chinese cabbage Found in other Brassica species	Wallbank & Wheatley, 1976; Tollsten & Bergstrom, 1988; Pierre et al., 2011; Kergunteuil et al., 2012; Liu et al., 2018
Methyl salicylate	defense hormone	≥ 99%	Sigma-Aldrich	Herbivore-induced plant volatile and attracting insects in the field in different crops, including Brassica	Orre et al., 2010; Simpson et al., 2011; Pierre et al., 2011; Kergunteuil et al., 2012
Ethylacetophenone	aromatic compound	97%	Sigma Aldrich	Flower-derived compound Attractive as food signal	Rännbäck, 2008
α-Farnesene	sesquiterpene	≥ 90%	Bedoukian Bio	Found in the volatile profiles of different <i>D. radicum</i> Brassica host species Predominant in the VOC profile of broccoli	Tollsten & Bergstrom, 1988; Pierre et al., 2011; Kergunteuil et al., 2015
β -Caryophyllene	sesquiterpene	≥ 98.5%	Sigma	Found in the volatile profiles of different <i>D. radicum</i> Brassica hosts species Predominant in the VOC profile of oil seed rape	Tollsten & Bergstrom, 1988; Pierre et al., 2011; Kergunteuil et al., 2015
α-Pinene	monoterpene	98%	Aldrich	Found in the VOC profiles of different <i>D. radicum</i> Brassica hosts species	Tollsten & Bergstrom, 1988; Pierre et al., 2011; Kergunteuil et al., 2015
α-Thujene	monoterpene	95 %	Toronto Research Chemicals	Found in the VOC profiles of different <i>D. radicum</i> Brassica hosts species,	Kergunteuil et al., 2015
Eucalyptol	monoterpene	99%	Aldrich	Reduces oviposition Found in some Brassica VOC profiles	Lamy et al., 2017; Liu et al., 2018
Limonene	monoterpene	97%	Sigma Aldrich	Found in volatile profiles of different <i>D. radicum</i> Brassica hosts species Reduces plant colonization	Pierre et al., 2011; Kergunteuil, 2013; Kergunteuil et al., 2015; Liu et al., 2018
Linalool	monoterpene	97%	Aldrich	Predominant in the VOC profile of Chinese cabbage	Kergunteuil et al., 2015
Myrcene	monoterpene	Technical grade	Aldrich	Found in the volatile profiles of different <i>D. radicum</i> Brassica host species	Tollsten & Bergstrom, 1988; Kergunteuil et al., 2015
Ocimene (mixture of isomers)	monoterpene	≥ 90%	Sigma-Aldrich	Found in the volatile profiles of different <i>D. radicum</i> Brassica hosts species	Tollsten & Bergstrom, 1988
Sabinene	monoterpene	98%	abcr chemicals	Found in the volatile profiles of different <i>D. radicum</i> Brassica hosts species	Tollsten & Bergstrom, 1988

* suppliers: Bedoukian, Danbury, CT, United States; Sigma-Aldrich, Saint Quentin Fallavier, France; Toronto Research Chemicals, Toronto, Canada; abcr chemicals, Karlsruhe, Germany