

Table S1. Desulfo-glucosinolates isolated from extracts of *Eruca sativa* while maintaining different levels of substrate volumetric water content (0.50, 0.40, 0.30, and 0.20 m³·m⁻³) using a soil moisture sensor-based automated irrigation system.

Peak No.	Retention time (min)	Structure of R-groups	Trivial name	Molecular Weight	Characteristic ions (m/z)	Response factor
1	5.2	CH ₃ -SO(CH ₂) ₄	DS-glucoraphanin (DS-4-methylsulfinylbutyl GSL)	357	380, 196	1.07 ¹
2	6.6	CH ₂ =CH-CH ₂ -	DS-sinigrin (internal standard) (DS-2-propenyl GSL)	279	118, 302	1.00 ¹
3	11.8	C ₆ H ₁₁ O ₅ -S-S-(CH ₂) ₄ -	DS-diglucothiobeinin (DS-4-(β-D'glucopyranosyldisulfanyl) butyl GSL)	521	522, 544	1.00 ²
4	12.2	CH ₃ -S-(CH ₂) ₃	DS-glucoibervirin (DS-3-Methylthiopropyl)	327	166, 350	0.80 ¹
5	16.0	CH ₃ -S-(CH ₂) ₄ -	DS-glucoerucin (DS-4-methylthiobutyl GSL)	341	180, 364	1.04 ¹
6	17.7	-S-(CH ₂) ₄	DS-glucosativin (DS-4-mercaptobutyl)	327	349, 327	1.00 ²
7	18.8	-(CH ₂) ₄ -S-S-(CH ₂) ₄	DS-DMBGLS (DS-dimeric 4-mercaptobutyl GSL)	652	653, 490	1.00 ²