Supplementary Materials

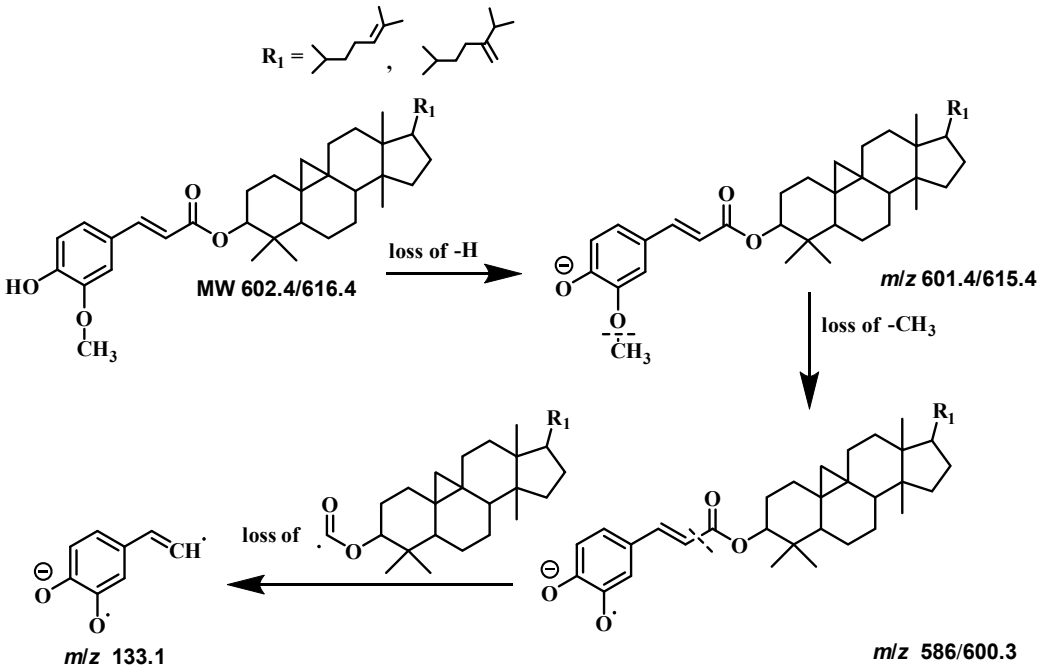

Figure S1. Proposed mechanism for the ion fragment of cycloartenyl ferulate, 24-methylene cycloartanyl ferulate.

Table S1. Detailed information of rice, corn and germ samples used in the validated study.

Agriproduct	Geographical Origin	Crop Year	Agriproduct	Geographical Origin	Crop Year
Rice bran 1	Hubei, China	2021	Rice 6	Hubei, China	2022
Rice bran 2	Anhui, China	2021	Rice 7	Hubei, China	2022
Rice bran 3	Anhui, China	2021	Rice 8	Hubei, China	2022
Rice bran 4	Chongqing, China	2021	Rice 9	Heilongjiang, China	2022
Rice bran 5	Hubei, China	2021	Rice 10	Hubei, China	2022
Rice bran 6	Hubei, China	2021	Corn 1	Hubei, China	2021
Rice bran 7	Hubei, China	2021	Corn 2	Hubei, China	2021
Rice bran 8	Chongqing, China	2021	Corn 3	Hubei, China	2021
Rice bran 9	Liaoning, China	2021	Corn 4	Hubei, China	2021
Rice bran 10	Anhui, China	2021	Corn 5	Hubei, China	2021
Rice bran 11	Anhui, China	2021	Corn 6	Hubei, China	2021
Rice bran 12	Chongqing, China	2021	Corn 7	Fujian, China	2021
Rice bran 13	Shandong, China	2021	Corn 8	Hubei, China	2021
Rice bran 14	Anhui, China	2021	Corn 9	Hubei, China	2021
Rice bran 15	Anhui, China	2021	Corn 10	Hubei, China	2021
Rice bran 16	Anhui, China	2021	Corn germ 1	Hubei, China	2021
Rice bran 17	Chongqing, China	2021	Corn germ 2	Hubei, China	2021
Rice bran 18	Anhui, China	2021	Corn germ 3	Hubei, China	2021
Rice bran 19	Liaoning, China	2021	Corn germ 4	Hubei, China	2021
Rice bran 20	Anhui, China	2021	Corn germ 5	Hubei, China	2021
Rice 1	Heilongjiang, China	2022	Corn germ 6	Hubei, China	2021
Rice 2	Hubei, China	2022	Corn germ 7	Hubei, China	2021
Rice 3	Heilongjiang, China	2022	Corn germ 8	Hubei, China	2021
Rice 4	Hubei, China	2022	Corn germ 9	Hubei, China	2021
Rice 5	Anhui, China	2022	Corn germ 10	Hubei, China	2021

Table S2. MRM transitions for the detection of cycloartenyl ferulate (CF) and 24-methylene cycloartanyl ferulate (24-CF).

Analyte	Scan Mode	Retention Time (min)	Precursor ion (*m*/*z*)	Product ion (*m*/*z*) [a]	CE [b] (eV)	IPs [c]
CF	-	5.37	601.4 $[M-H]^-$	**133.1**	-55	4
				586	-40	
24-CF	-	5.71	615.4 $[M-H]^-$	**133.1**	-55	4
				600.3	-42	

[a] Mass transition in bold was used for the quantified detection, [b] CE was collision energy for product ions, [c] According to European Commission Decision 2002/657/EC.