

Table S1. Selected ion monitoring (SIM) conditions for standards.

Standards	Formula	Ion Mode	Q1	DP	CEP
Calycosin	C16H12O5	positive	307.07	61	20

Q1, precursor m/z; DP, declustering potential (volts); CEP, collision entrance potential.

Table S2. DPPH radical scavenging activities of the AM-NF and AM-LP.

Sample ¹⁾		Radical scavenging activity (%)
Media		50.54 ± 1.58
AM-NF		51.22 ± 1.49
L-ascorbic acid (100 µg/mL)		85.67 ± 1.15*
AM-LP	MG5141	64.83 ± 1.14*
	MG5142	61.02 ± 0.77*
	MG5143	53.80 ± 0.84
	MG5144	48.66 ± 0.74
	MG5145	72.05 ± 0.60*
	MG5182	61.36 ± 0.29
	MG5185	65.50 ± 0.42*
	MG5186	54.16 ± 1.28
	MG5187	60.20 ± 0.15
	MG5188	60.54 ± 1.09
	MG5194	59.94 ± 0.68*
	MG5198	63.60 ± 0.12
	MG5201	56.04 ± 0.66
	MG5202	59.62 ± 0.25
	MG5203	60.11 ± 0.21
	MG5204	59.12 ± 0.00
	MG5211	62.02 ± 0.04
	MG5243	62.69 ± 0.02
	MG5247	54.72 ± 0.70
	MG5248	56.29 ± 1.01*
	MG5249	61.51 ± 1.23*
	MG5251	63.67 ± 0.70*
	MG5254	53.23 ± 0.50
	MG5255	56.05 ± 0.43
	MG5260	56.72 ± 0.29
	MG5270	61.94 ± 0.07
	MG5276	70.38 ± 1.12**
	MG5281	62.10 ± 0.39*
	MG5283	65.50 ± 0.19*
	MG5287	60.87 ± 0.40
	MG5289	62.60 ± 0.14
	MG5302	64.34 ± 0.45*
	MG5307	66.74 ± 0.98*
	MG5308	64.10 ± 0.36
	MG5309	60.94 ± 0.42
	MG5324	66.66 ± 0.39*
	MG5330	61.45 ± 0.30

¹⁾ Media, media without *A. membranaceus* extract; AM-NF, *A. membranaceus* extract not fermented by *L. plantarum*; AM-LP, *A. membranaceus* extract fermented by *L. plantarum*.

L-ascorbic acid at 100 µg/mL was used as a positive control. Values are expressed as mean ± SD. *p < 0.05, **p < 0.01, ***p < 0.001 comparing AM-NF.

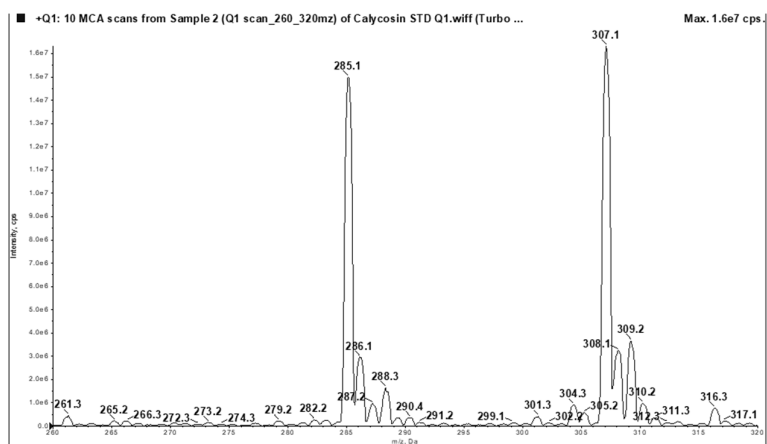


Figure S1. ESI-MS/MS spectrum of calycosin.