

Supplementary materials

Analysis of the composition of lyophilisates obtained from *Aloe arborescens* gel of leaves of different ages from controlled crops

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Table S1. Validation parameters of HPLC-DAD method.

Parameter	Aloin A	Aloenin A
Retention time – R _T (min)	16.46	12.68
Correlation coefficient – r	0.9997	0.9998
Range of linearity (mg/mL)	0.0044–0.044	0.013–0.13
LOD(mg/mL)	0.1981	0.0917
LOQ (mg/mL)	0.6003	0.2780
Slope (a ± S _a)	26231752.21 ± 1574687.52	25840498.78 ± 718467.9855
Intercept (b ± S _b)	130541.2931 ± 44364.84	–18415.9487 ± 54327.93115

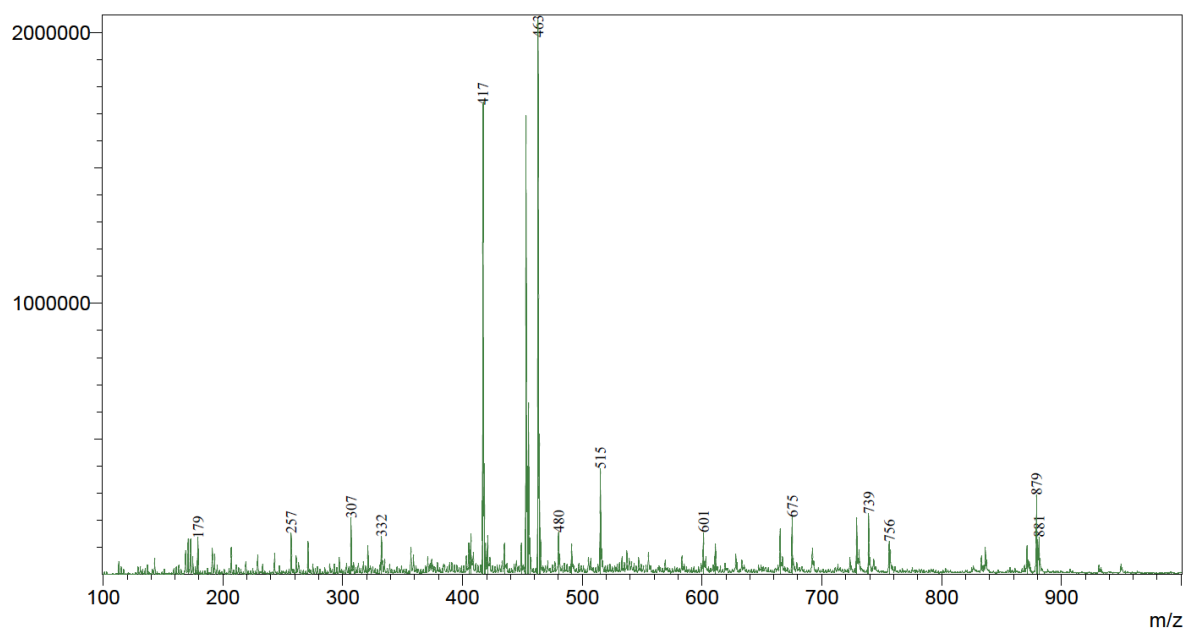


Figure S1. Mass spectra for aloin A.

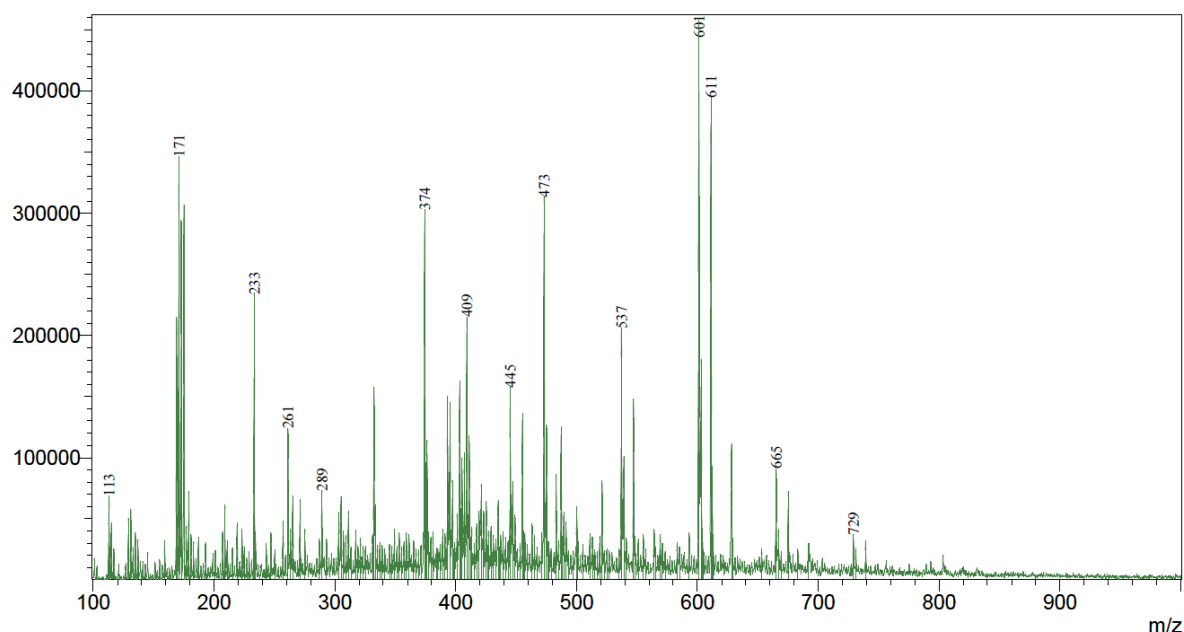


Figure S2. Mass spectra for aloenin A.

The HPLC-DAD method developed for the purpose of aloin A and aloenin A determinations in studied extracts, was conducted according to the following conditions of the mobile phase composition.

Table S2. HPLC-DAD method gradient. Mobile phase consists of methanol – Phase A and water – Phase B.

Time (min)	Phase A concentration (%)	Phase B concentration (%)
0.0–13.99	35	65
14.00–17.00	95	5
17.01–20.0	35	65

Table S3. The results of statistical analysis (ANOVA test).

Assay	Type of extract	<i>p</i> value
The sum of polyphenolic compounds	water	0.0156
	ethanol	0.0237
Phenolic acids	water	0.0237
	ethanol	0.0216
CUPRAC	ethanol	0.0156
DPPH	water	0.0156
	ethanol	0.0473
ABTS	water	0.0245
	ethanol	0.0324