SUPPLEMENTARY FILE

Figure S1. Fingerprints of the analyzed extracts in the negative ionization mode.

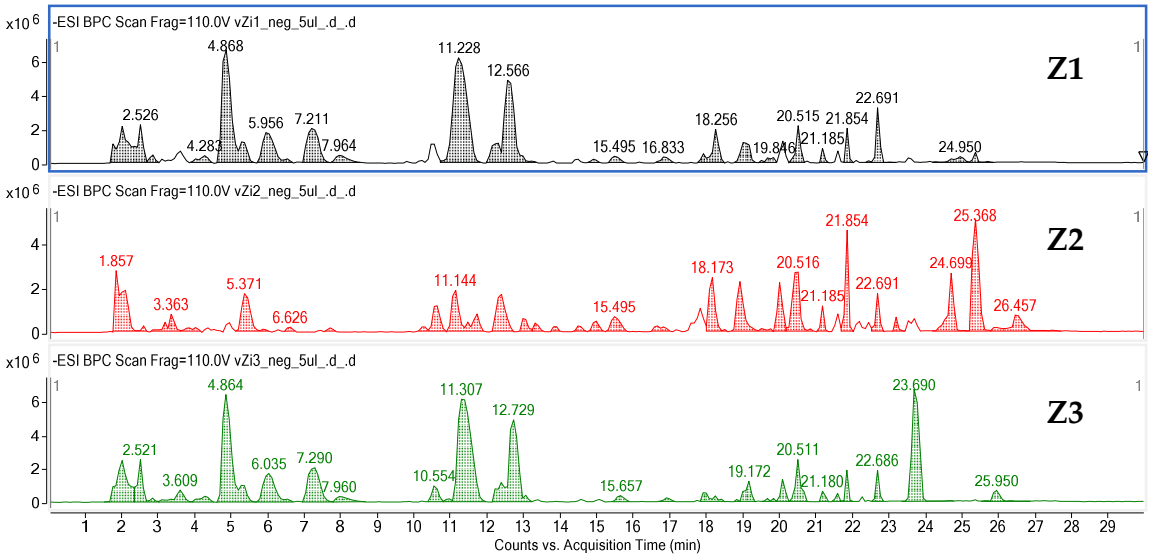


Figure S2. Fingerprints of the analyzed extracts in the positive ionization modes.

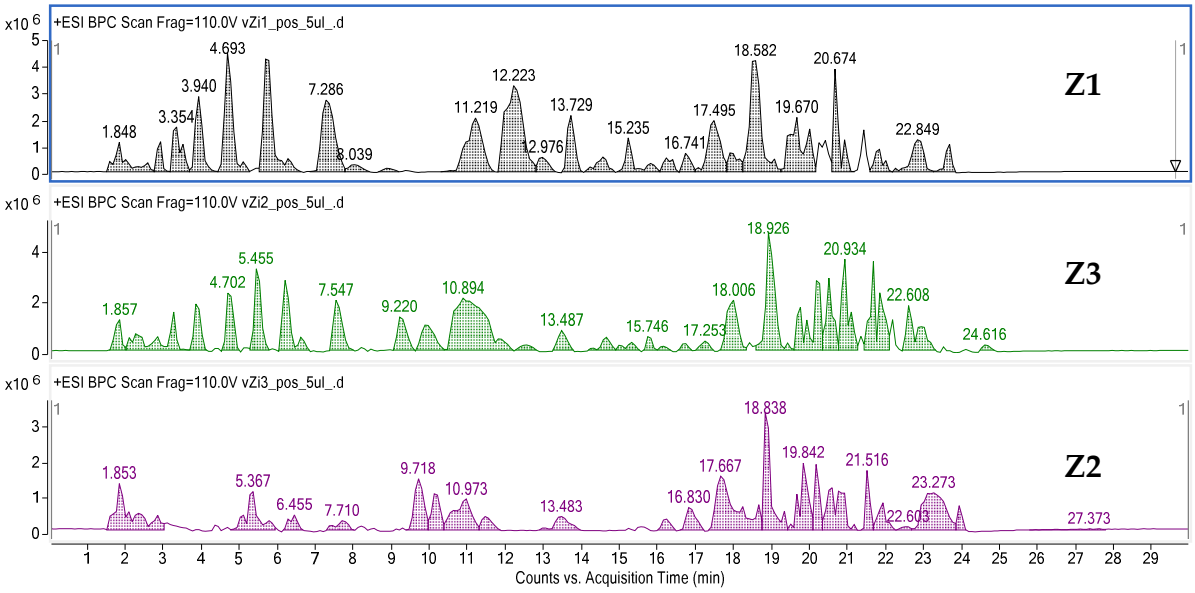
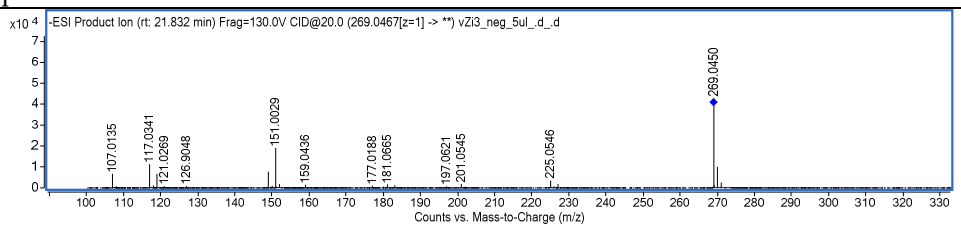
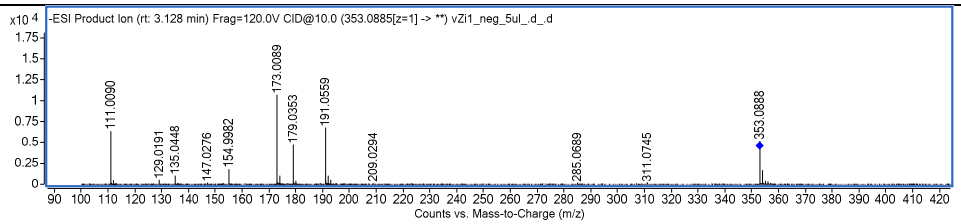
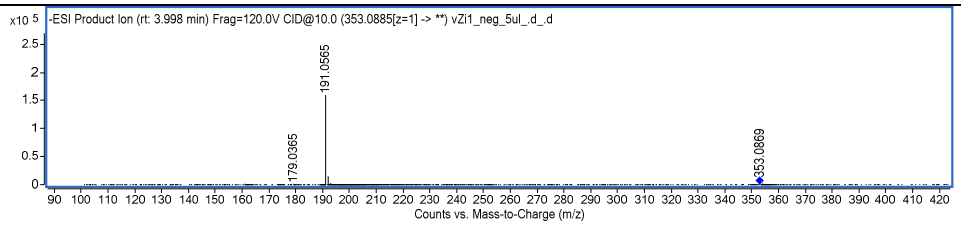
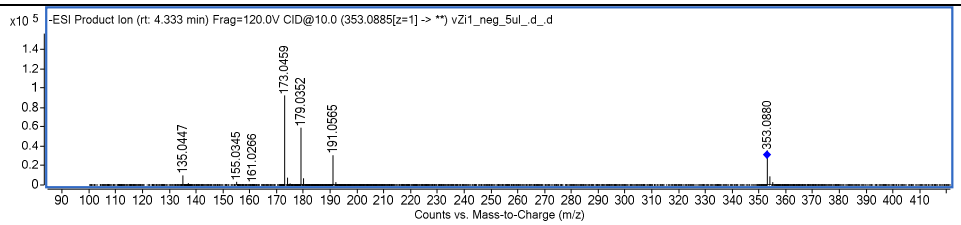
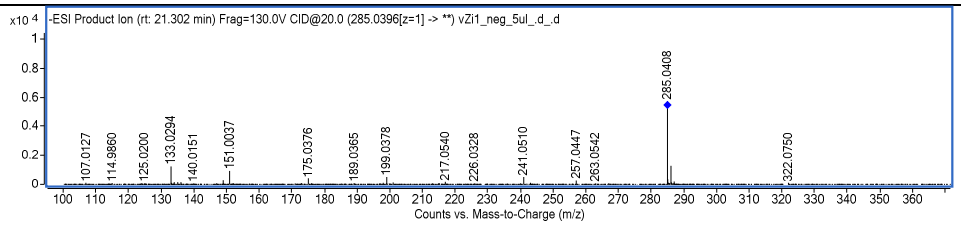
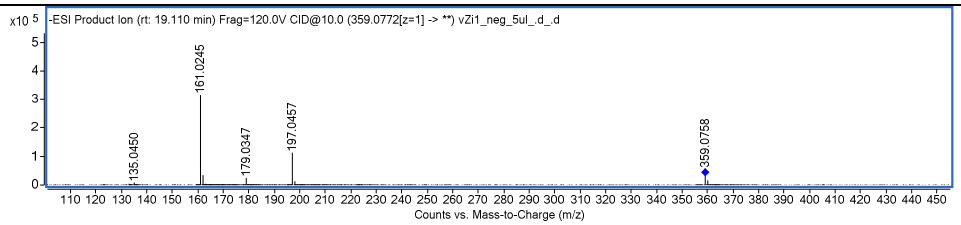
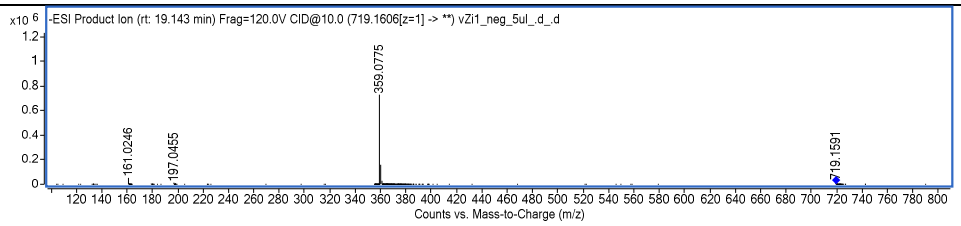
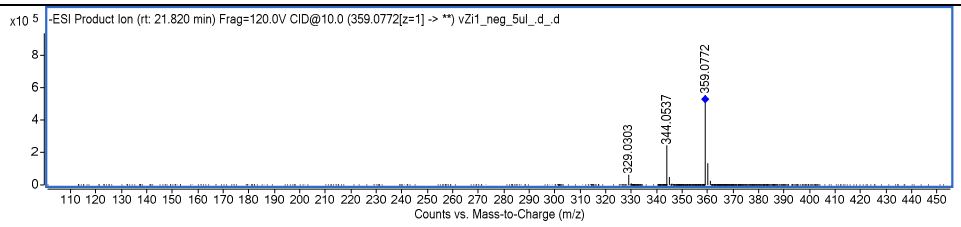
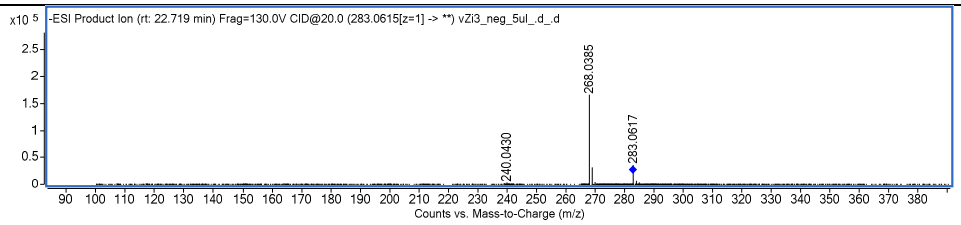
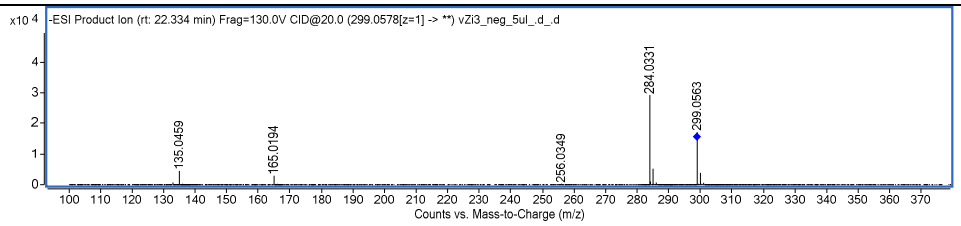
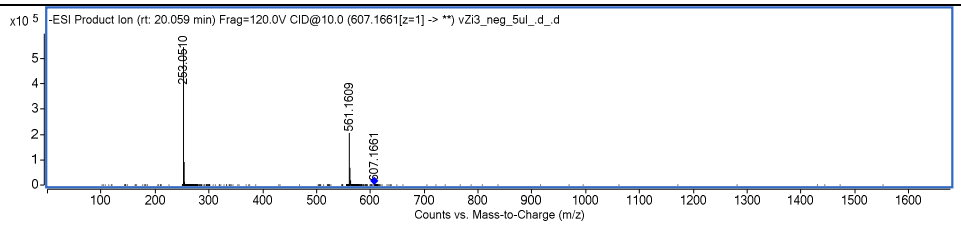
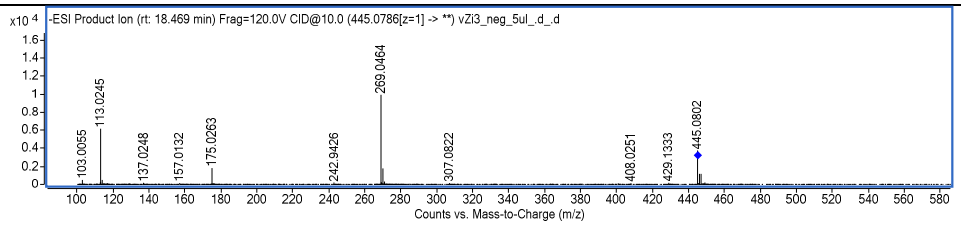
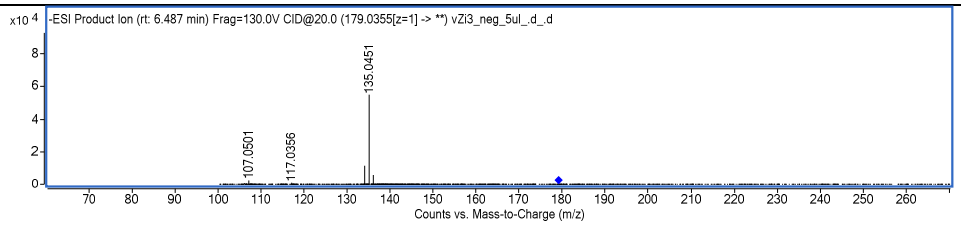
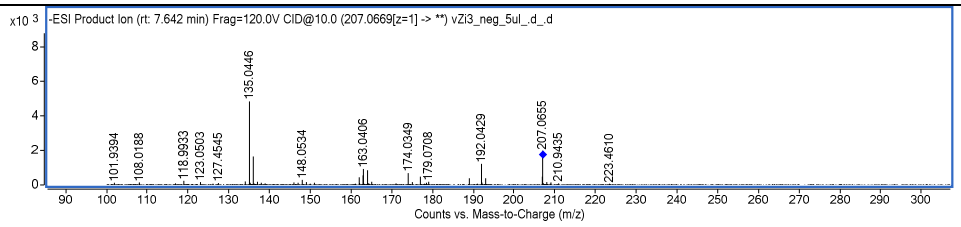
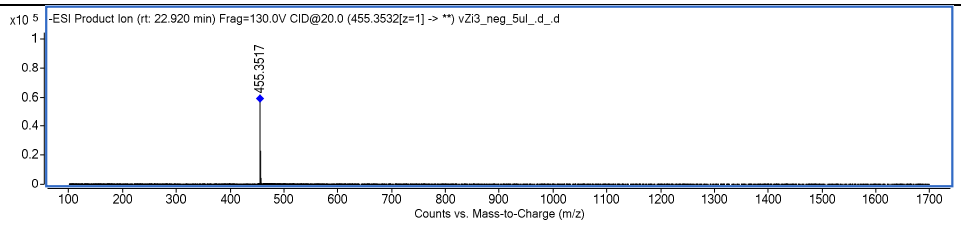
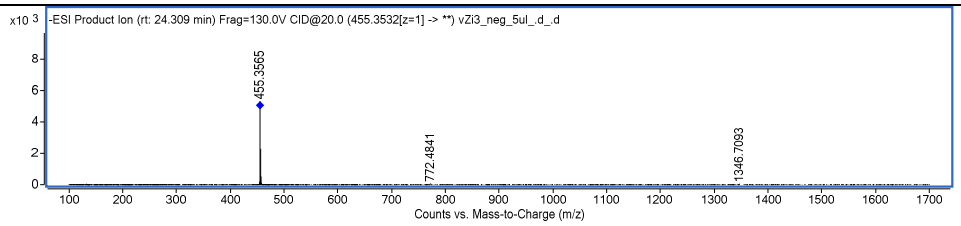
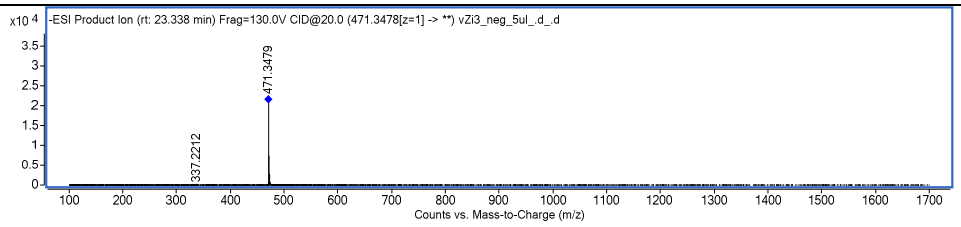
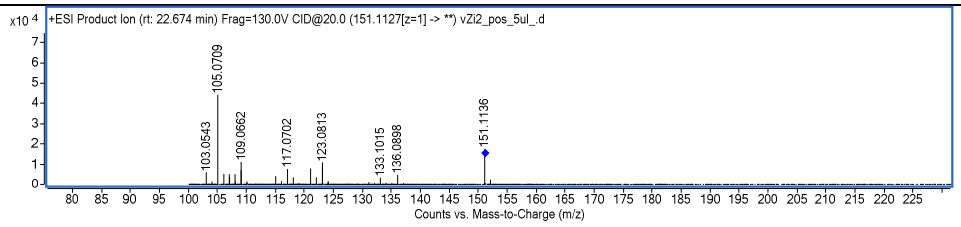


Table S1. MS/MS spectra of the identified compounds.

Compound	Spectrum
Apigenin	
Chlorogenic acid	
Neochlorogenic acid	
(Z)-Chlorogenic acid	
Luteolin	
Thymonin and a dimer	

	
Thymonin isomer	
Acacetin	
Diosmetin	
Diosmetin	
5,7,21-trihydroxyflavone-21-*O*-glucopyranoside	

Caffeic acid	
Ethyl ester of caffeic acid	
Oleanolic acid	
Ursolic acid	
Maslinic acid	
Thymol	

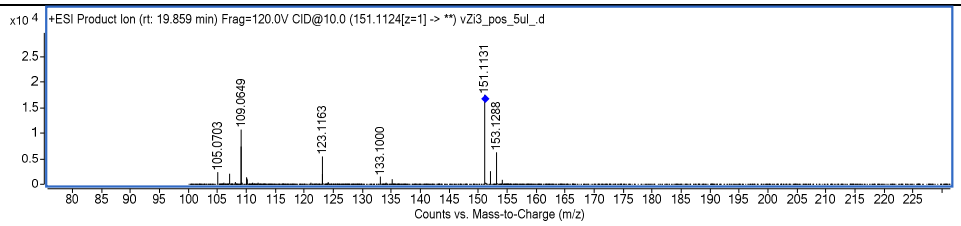
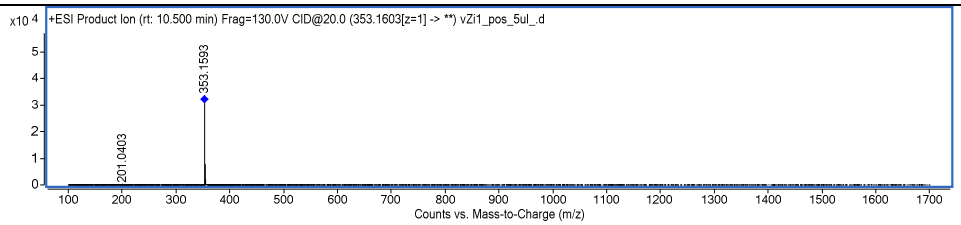
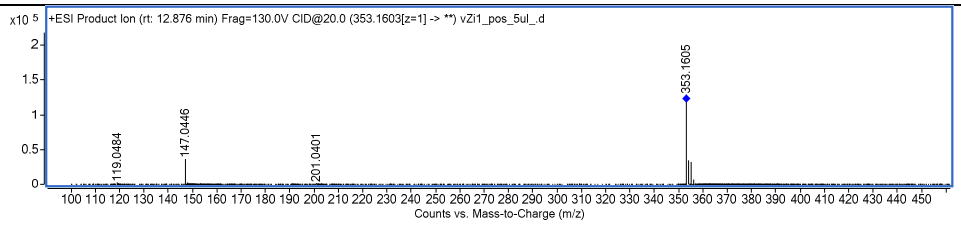
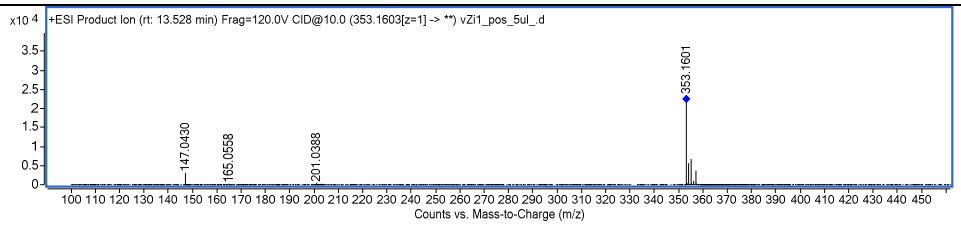
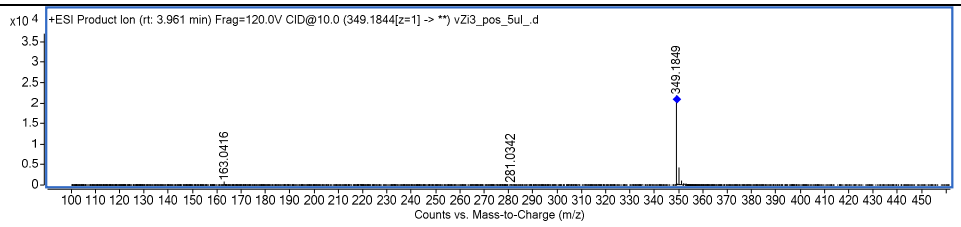
Carvacrol	
Ziziphoroside A	
Ziziphoroside B	
Ziziphoroside C	
Schizonepetasi de E	

Table S2. The relative compositions of the Z1–Z3 extracts. For the each studied compound (**1–26**), the HPLC peak areas representing the absolute amounts of a given compound within Z1, Z2 and Z3 extracts were rescaled, in order to sum to 1 in every row of the table below, expressing the relative compositions of the Z1–Z3 extracts.

		Absolute Compositions			**Relative Compositions (C_{rel})**		
		Z1	**Z2**	**Z3**	**Z1**	**Z2**	**Z3**
1	Chlorogenic acid	1540451	616767	1428191	0.4296	0.1720	0.3983
2	Neochlorogenic acid	3809788	1204722	4321964	0.4081	0.1290	0.4629
4	(*Z*)-Chlorogenic acid	7447554	1204722	4720773	0.5569	0.0901	0.3530
6	Caffeic acid	6243017	5526195	5075319	0.3706	0.3281	0.3013
9	Ziziphoroside isomer 1	559519	362891	241409	0.4808	0.3118	0.2074
10	Ziziphoroside isomer 2	175140	0	24764	0.8761	0.0000	0.1239
11	Ziziphoroside isomer 3	344946	251998	320946	0.3758	0.2745	0.3497
13	Rosmarinic acid	32458496	23080201	13968651	0.4670	0.3321	0.2010
15	Diosmin	12139796	21723047	12863281	0.2598	0.4649	0.2753
23	Acacetin	1838989	1331696	5276971	0.2177	0.1576	0.6247
26	Ursolic acid	11308	1391069	3039741	0.0025	0.3132	0.6843

Table S3. The relative biological activities of the Z1–Z3 extracts. Biological activities represented by 'survivability' of cells/enzymes (S) were taken from Figure 6 for the Z1–Z3 extracts of concentrations equal to 200 ug/mL and used to calculate biological activity (A) using formula A = 100% − S. For each biological activity test (I–VIII), the values of A for the Z1, Z2 and Z3 extracts were rescaled in order to sum to 1 in every row of the table below.

		A = 100%-S [%]			**Relative Activities (A_{rel})**		
		Z1	**Z2**	**Z3**	**Z1**	**Z2**	**Z3**
I	Cytotoxicity B16F10-10%	2.02	4.42	15.31	0.0929	0.2032	0.7039

II	Cytotoxicity B16F10-1%	2.22	6.4	16.95	0.0868	0.2503	0.6629
III	Cytotoxicity HaCat-10%	0	26.2	0	0.0000	1.0000	0.0000
IV	A375-10%	19.31	28.07	0	0.4076	0.5924	0.0000
V	SKMEL-3	8.14	23.12	0	0.2604	0.7396	0.0000
VI	MurT	29.93	49.75	17.4	0.3083	0.5125	0.1792
VII	MushT	7.6	9.07	0	0.4559	0.5441	0.0000
VIII	SOD	7.41	36.14	24.88	0.1083	0.5281	0.3636