Supplementary materials

Antioxidant, Antigenotoxic and Cytotoxic Activity of Essential Oils and Methanol Extracts of *Hyssopus officinalis* L. subsp. *aristatus* (Godr.) Nyman (Lamiaceae)

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Figure S1. A comparative view of LC-DAD chromatograms of methanol extracts (1E–6E) of *H. officinalis* recorded at 320 nm. CA – chlorogenic acid, RA – rosmarinic acid.

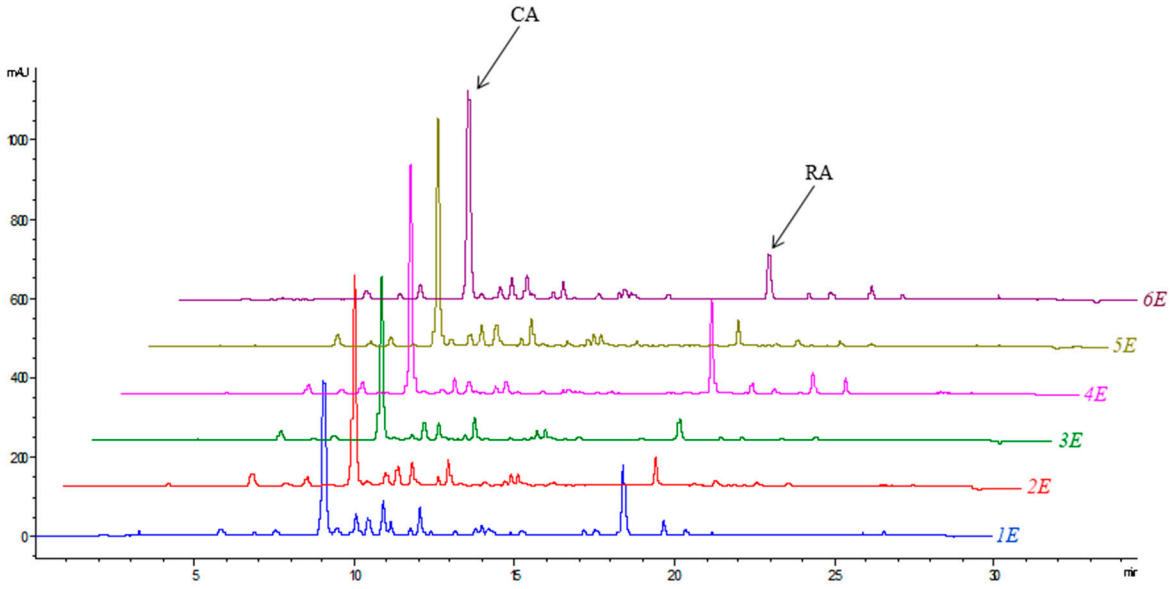
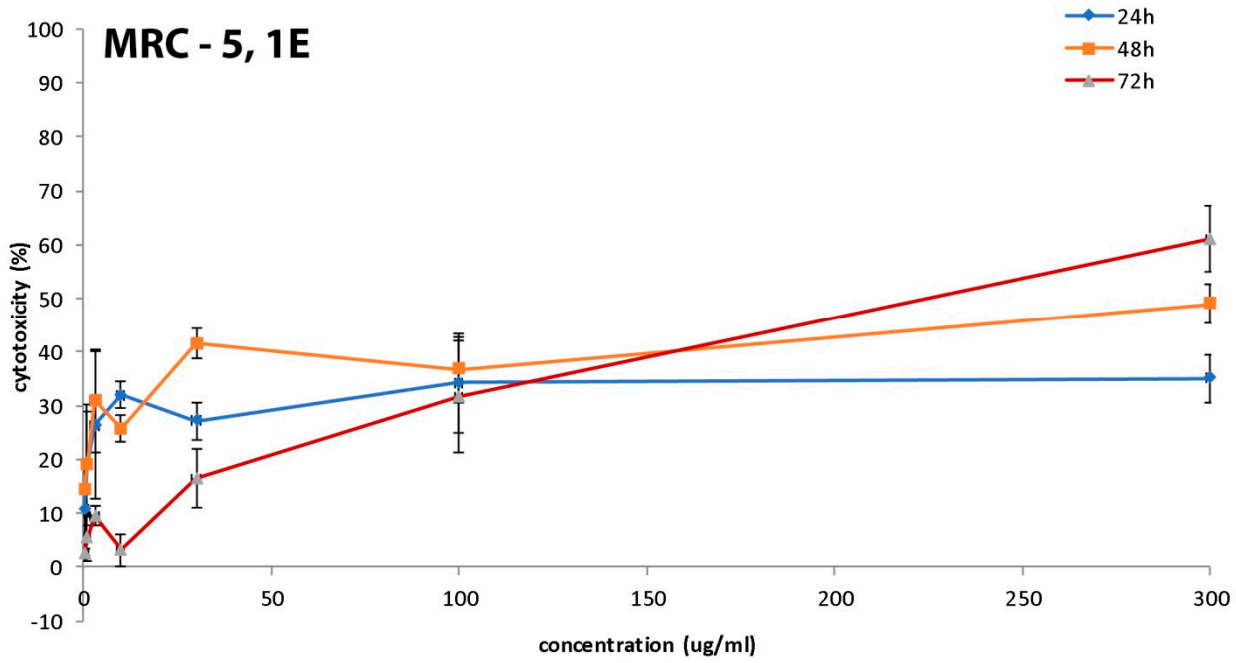


Figure S2. Dose-response curves in MTT assay after 24, 48 and 72 h treatment of MRC-5 (a - f), SW480 (g - l), MDA-MB 231 (m - r) and HeLa (s - x) cell lines with extracts 1E-6E. The values are presented as mean ± SD of triplicates from at least three independent experiments.

Figure S2(a)



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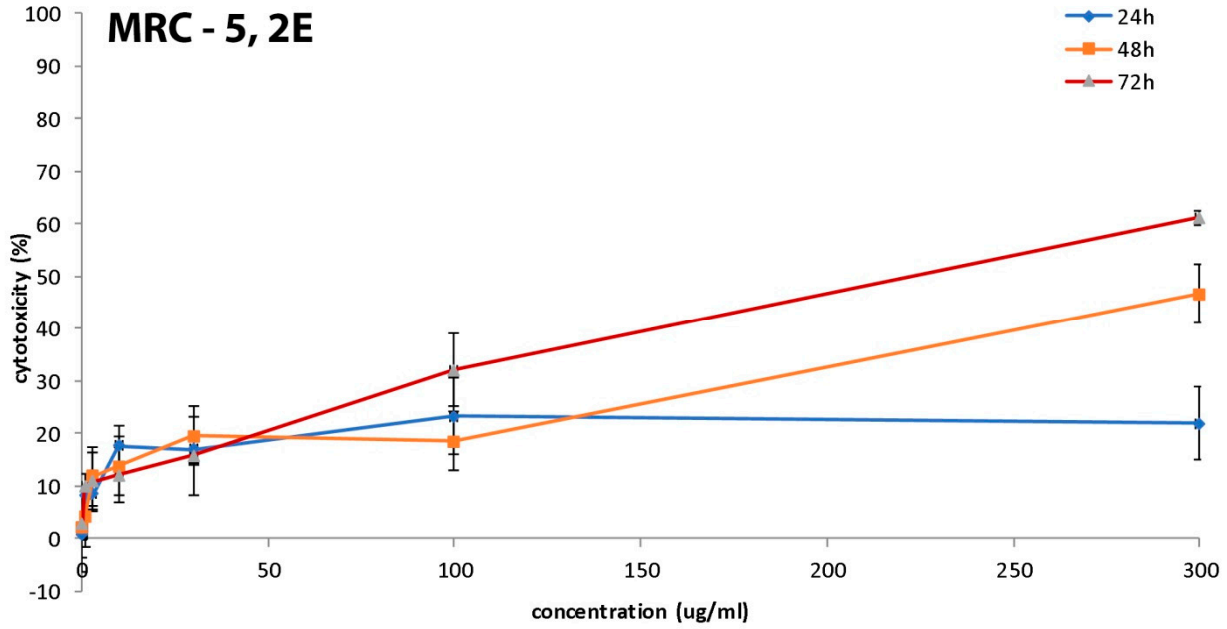

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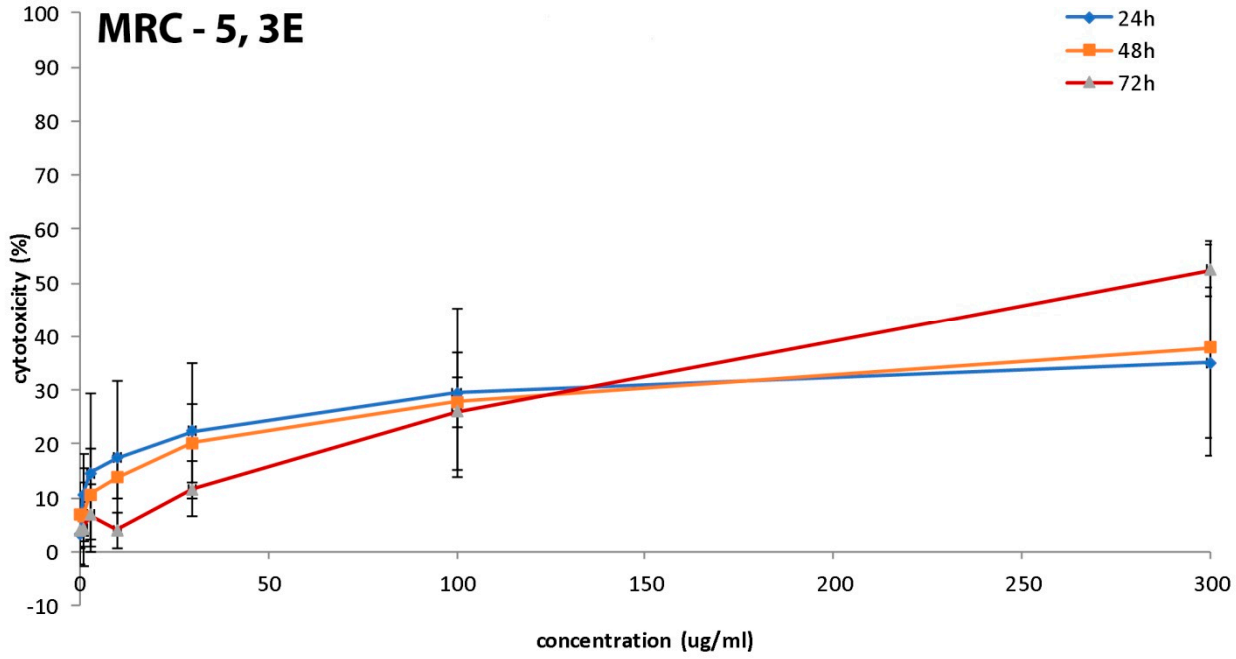
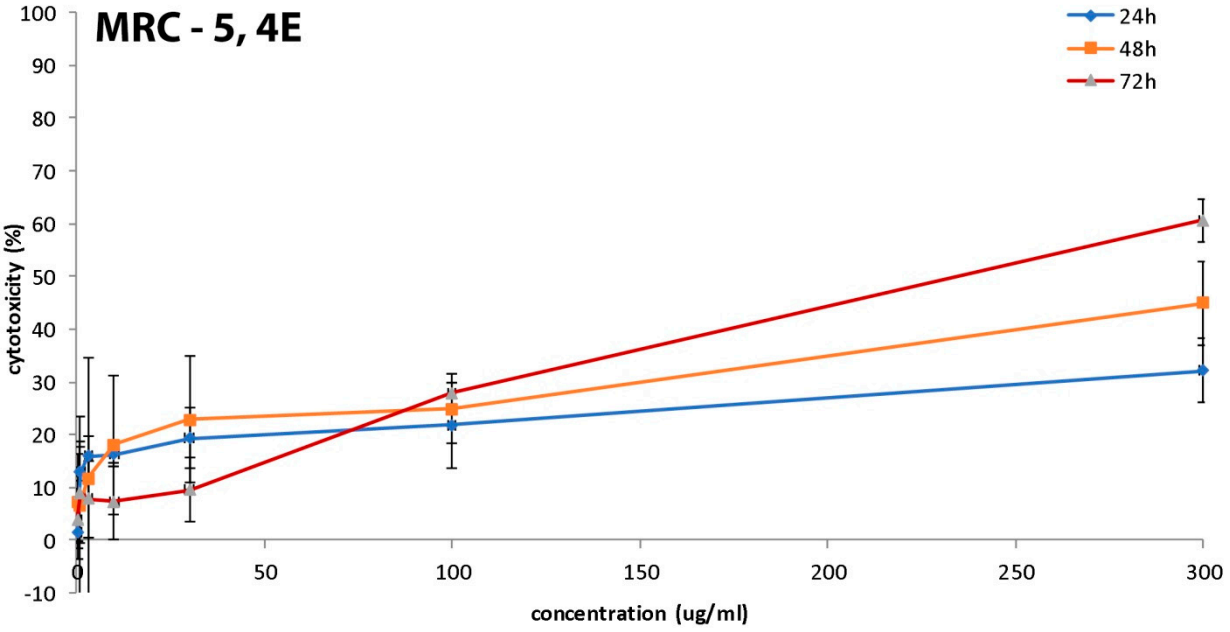


Figure S2(d)



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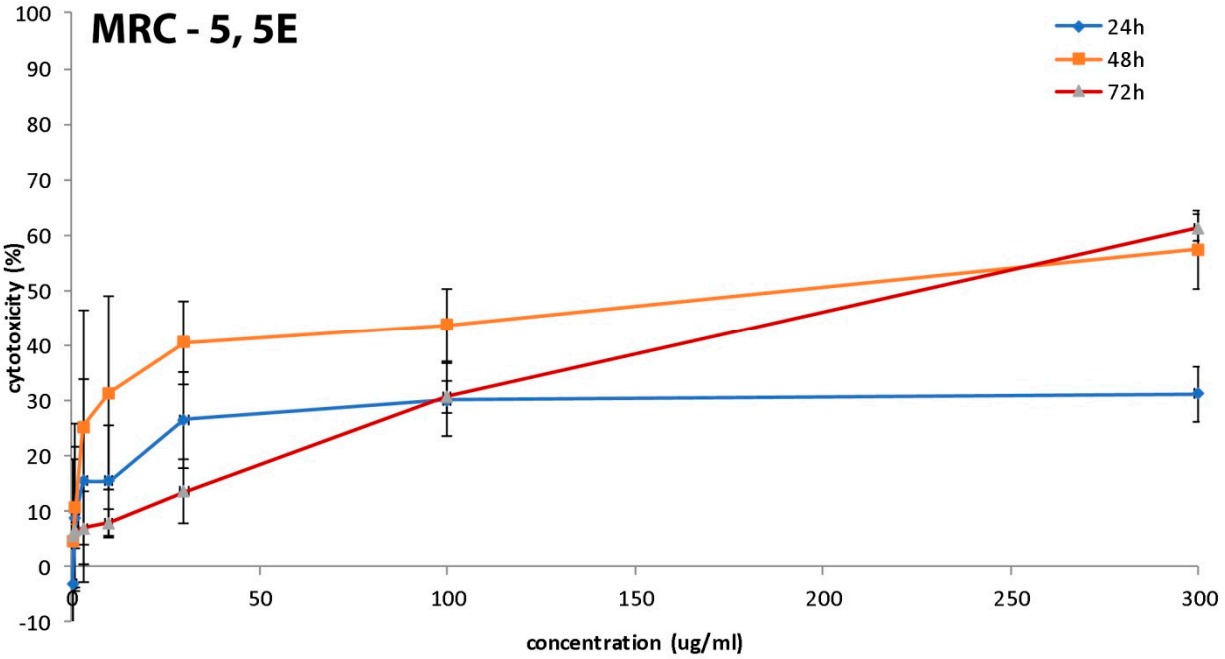

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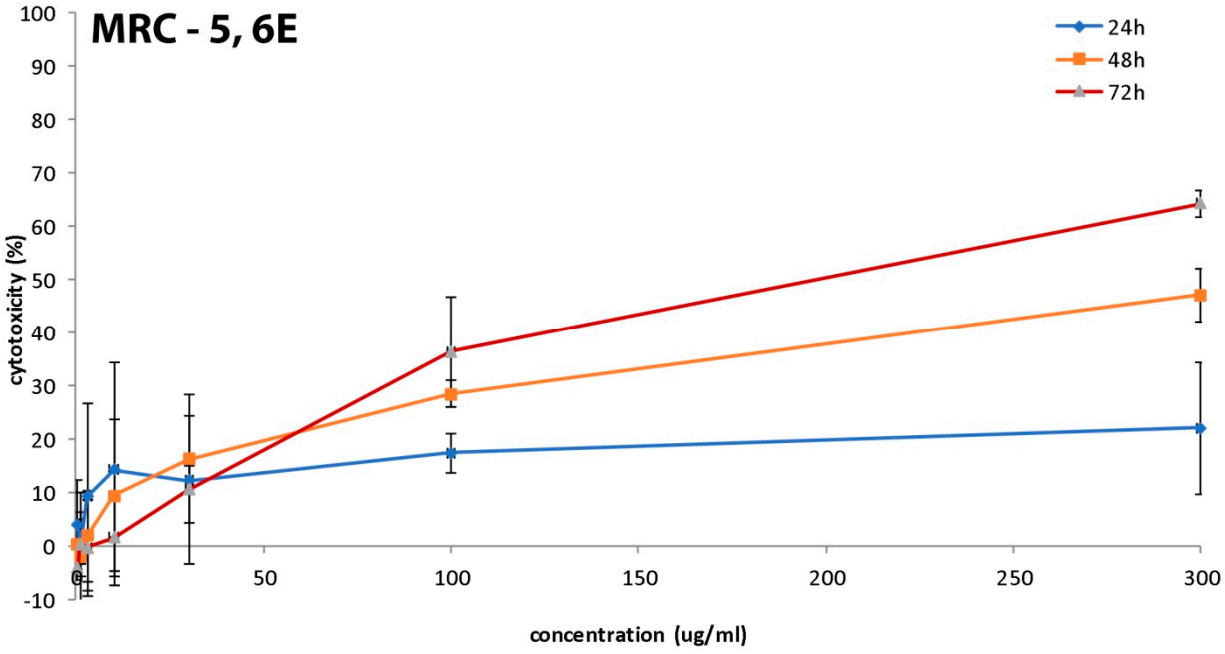

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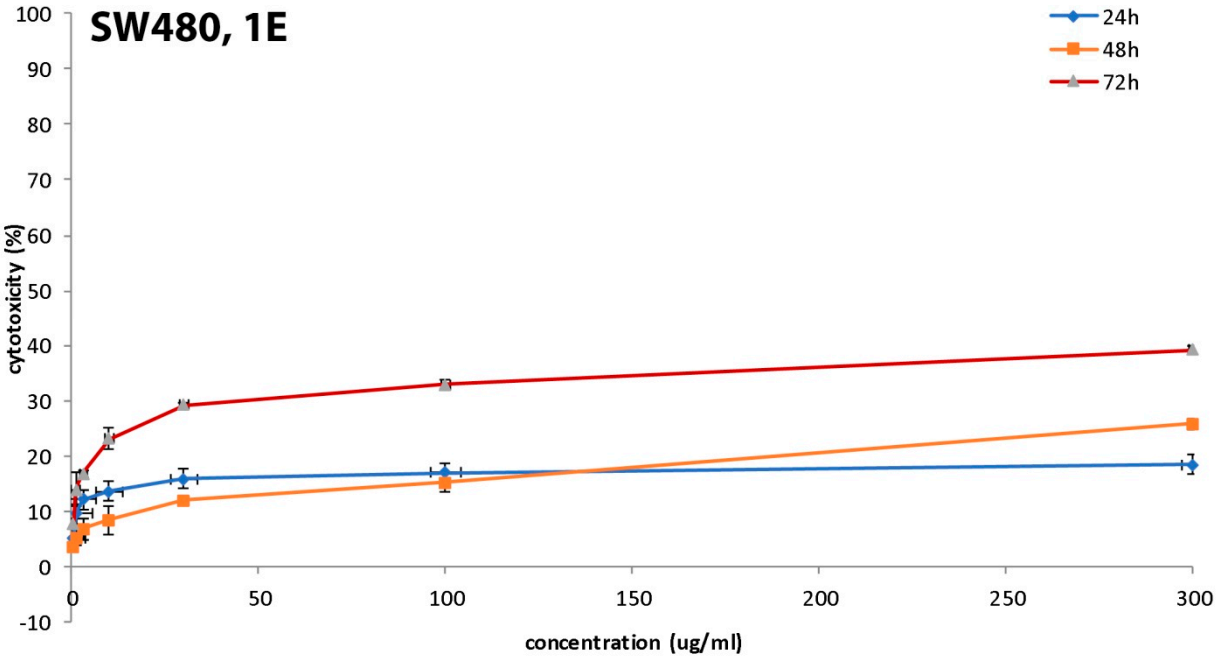

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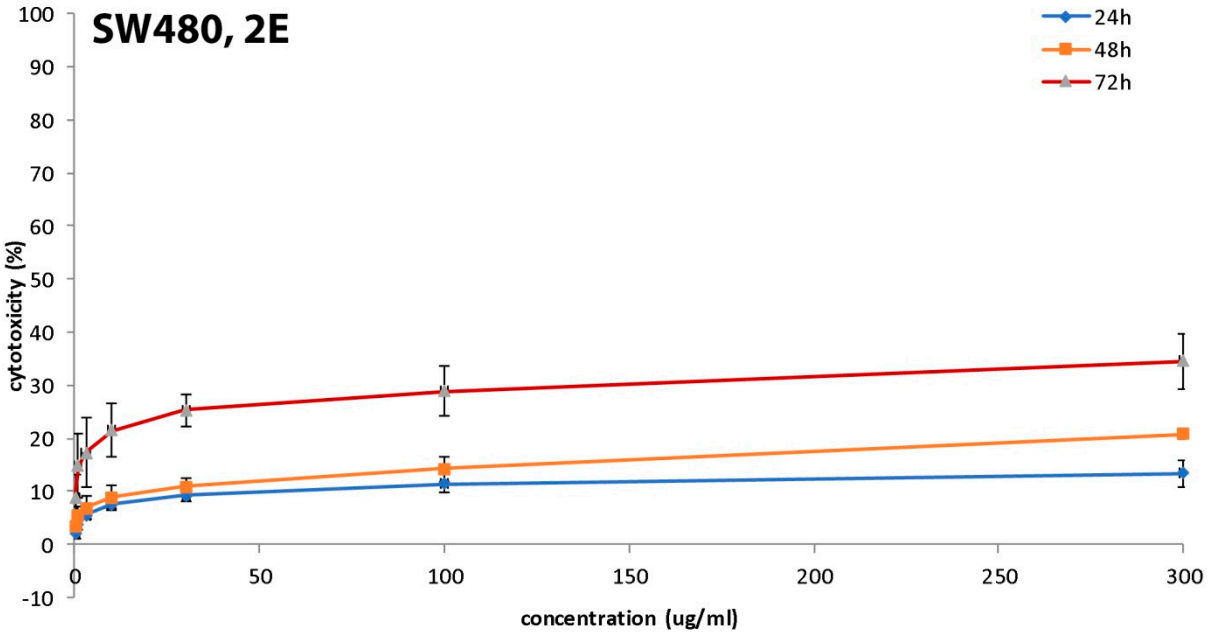

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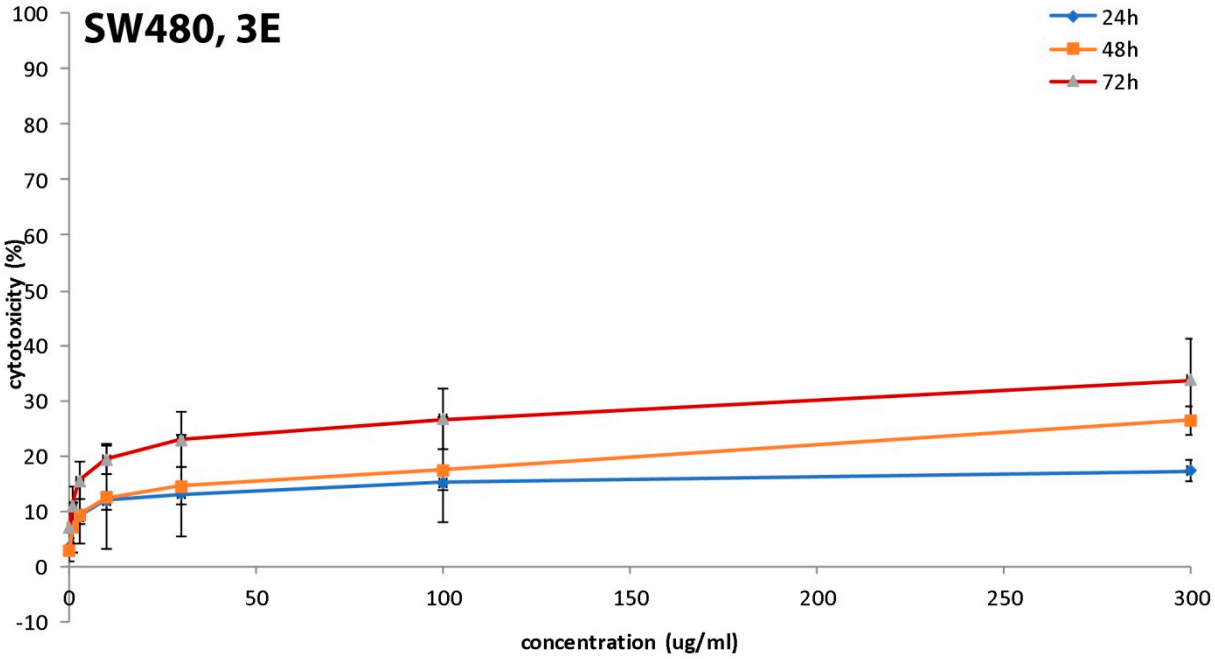

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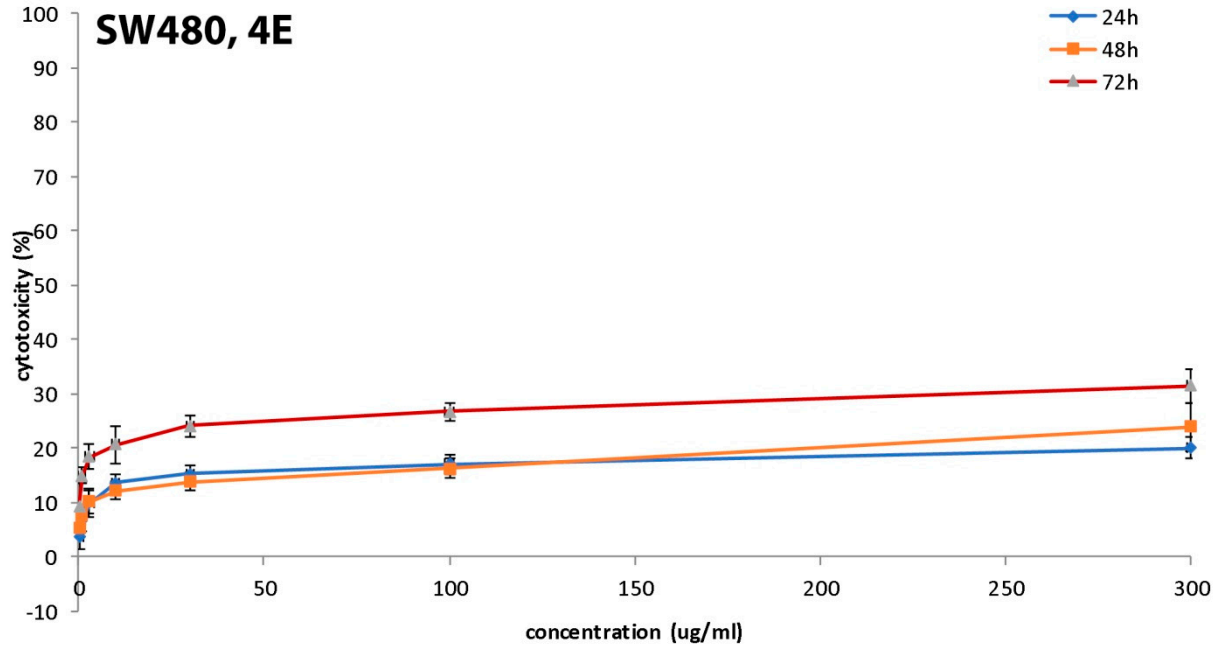

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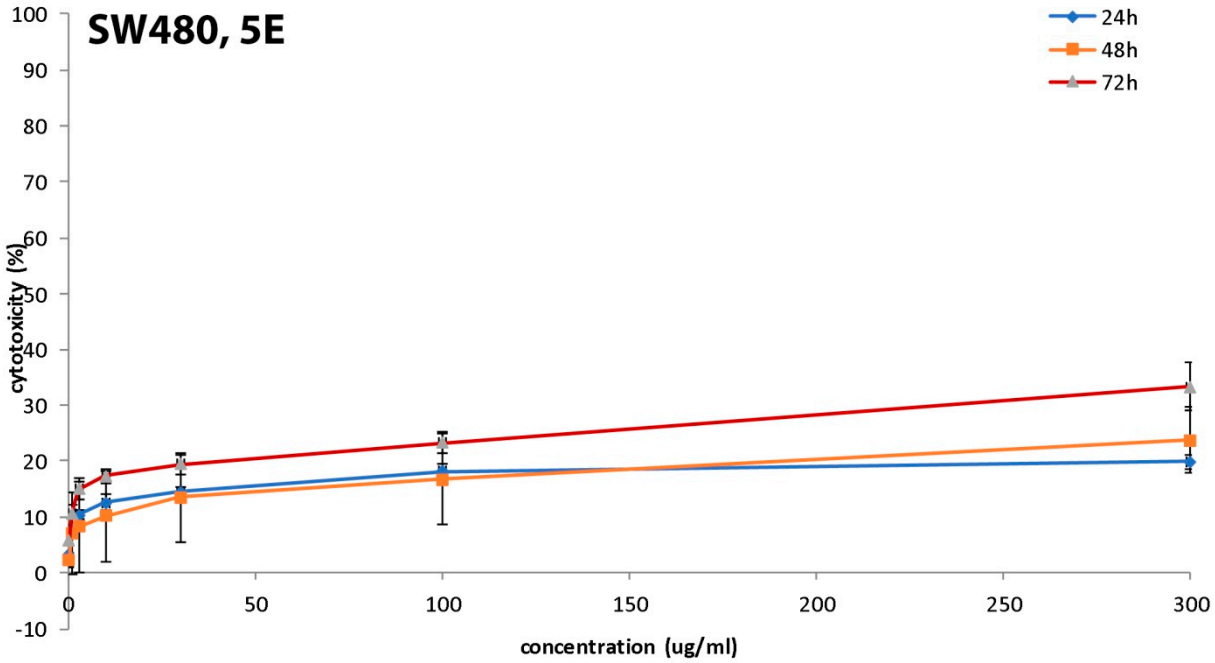

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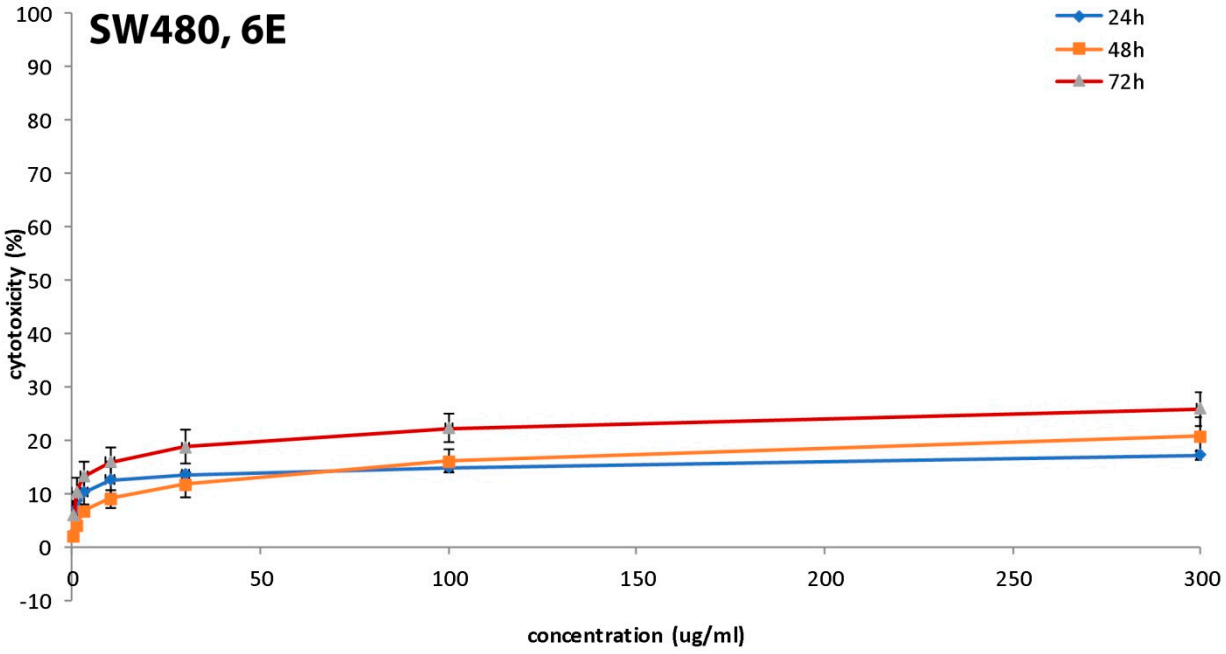

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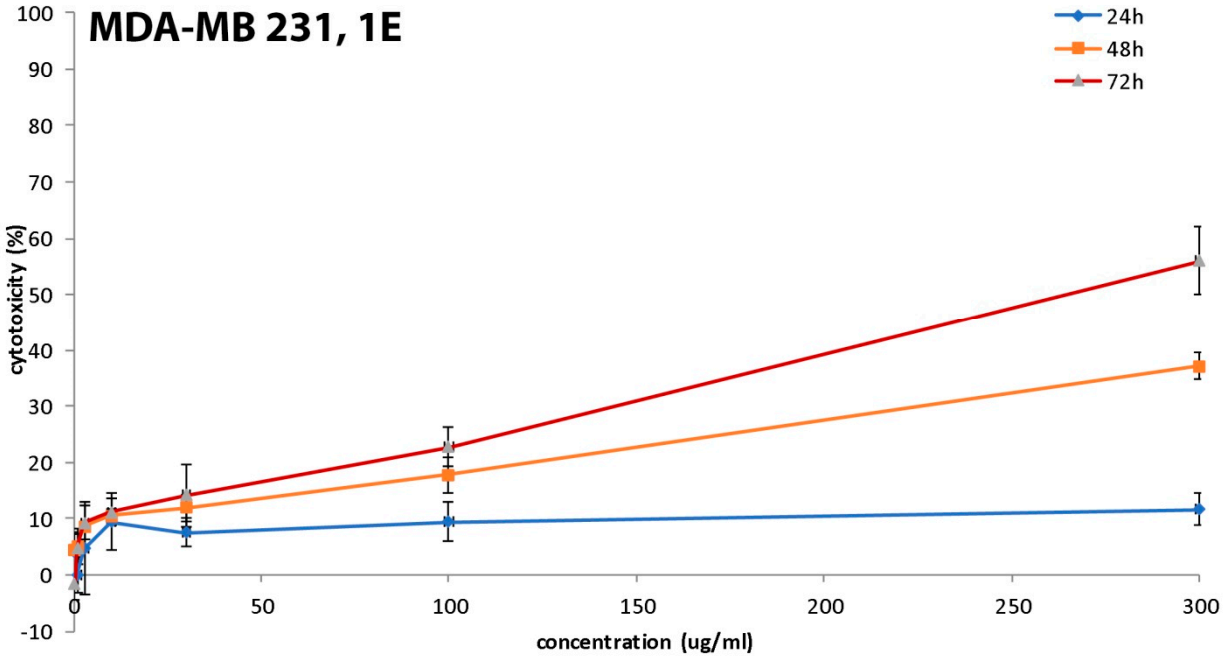

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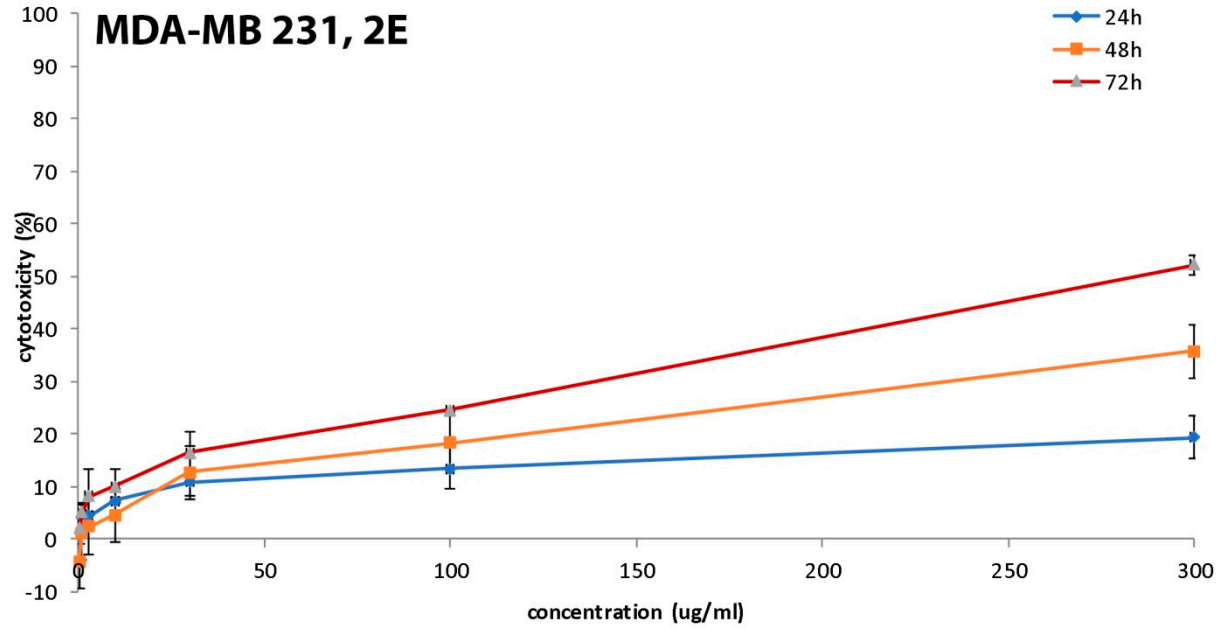

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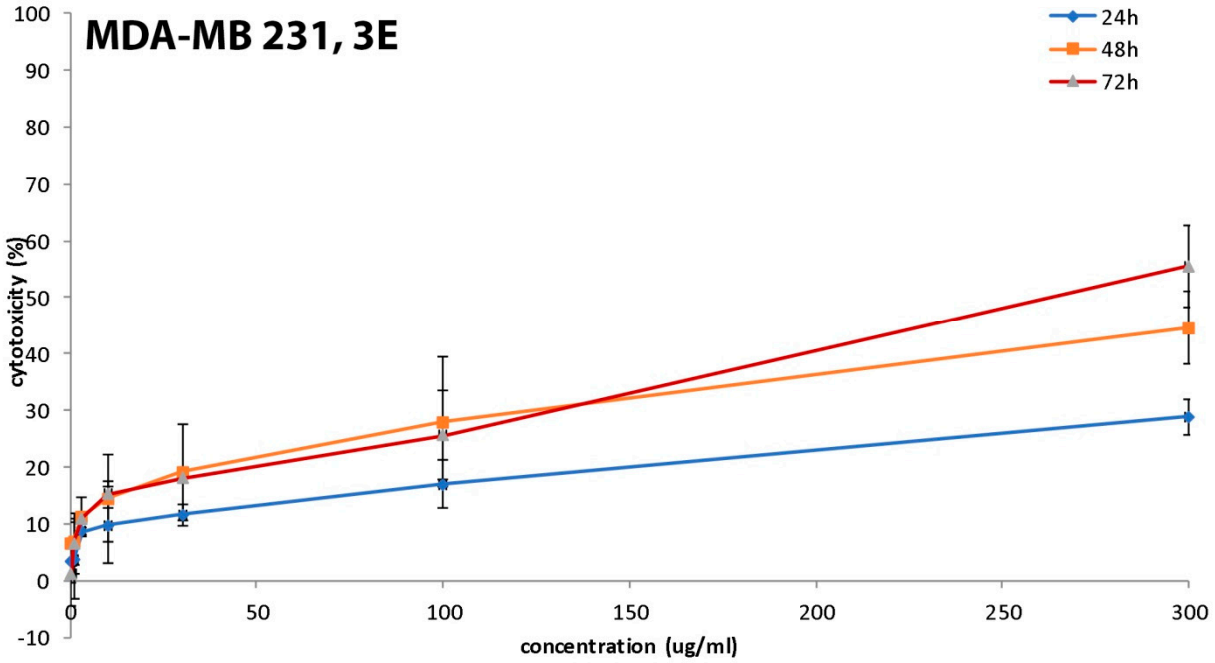

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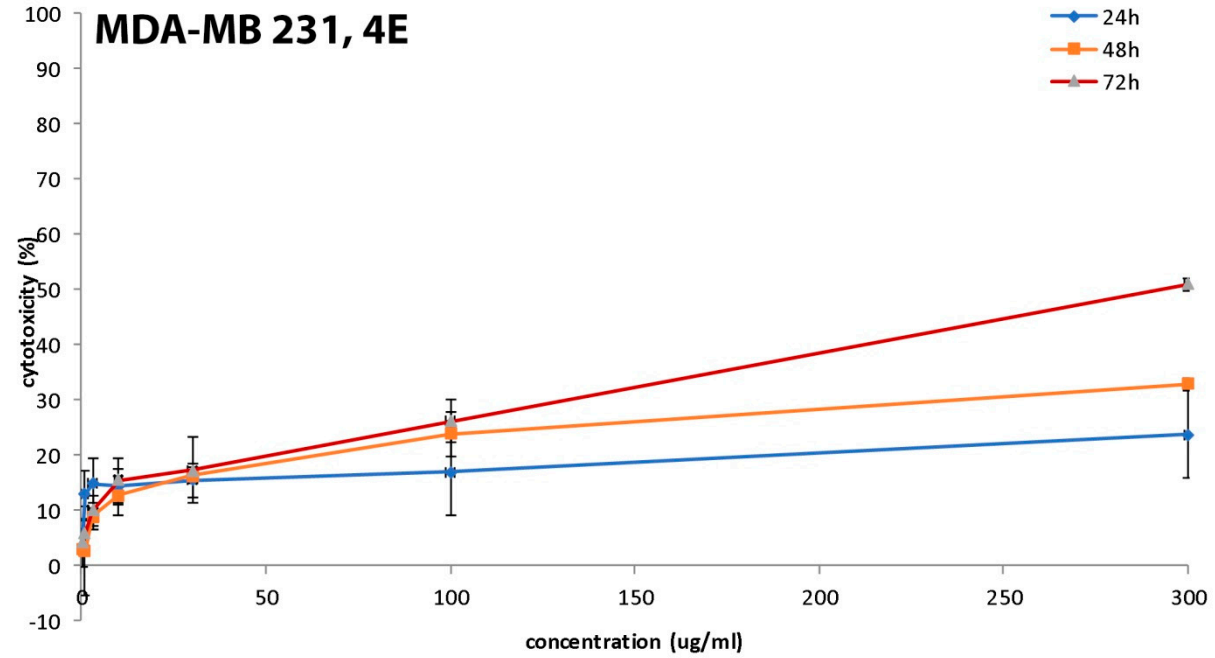

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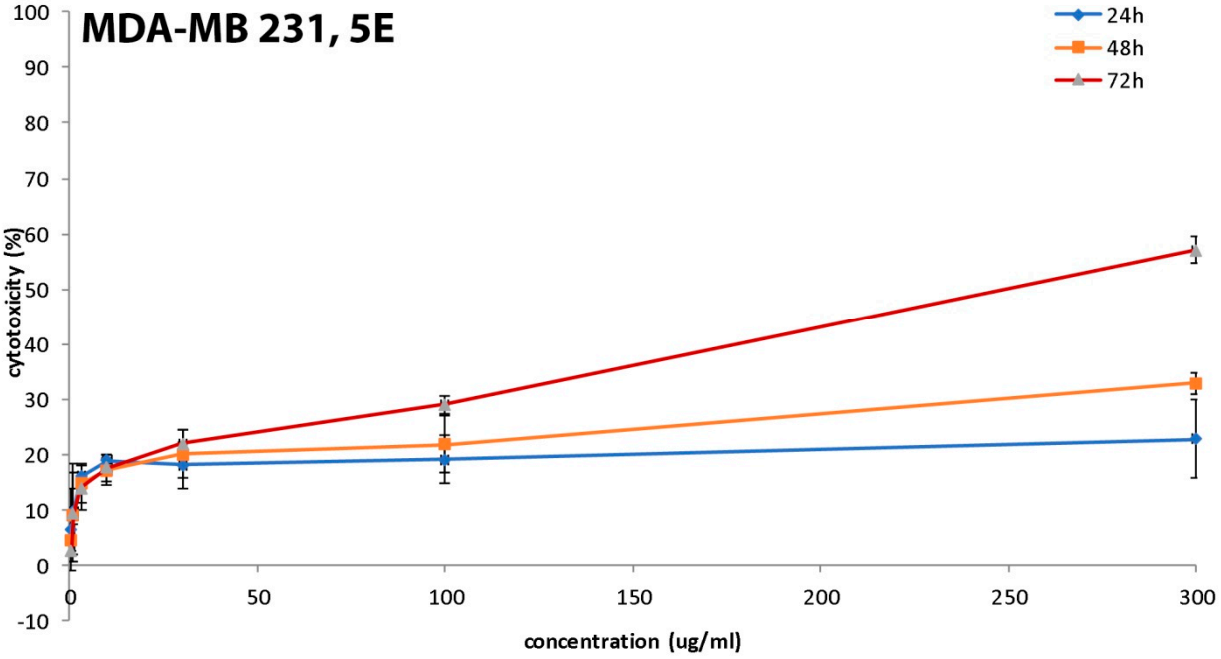

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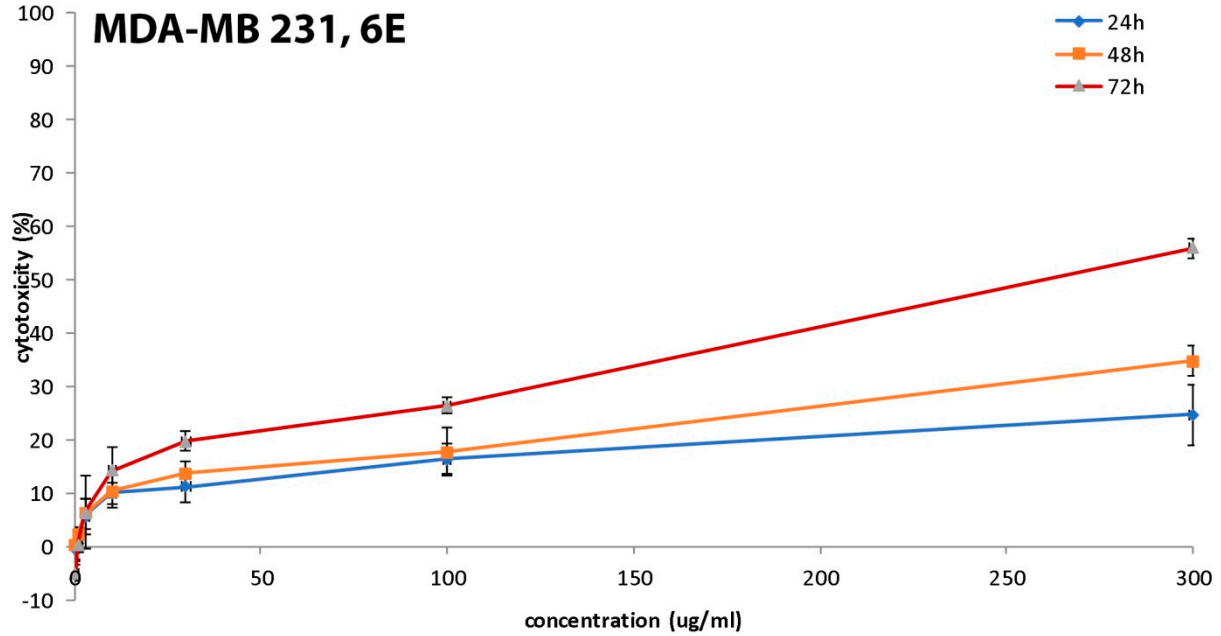

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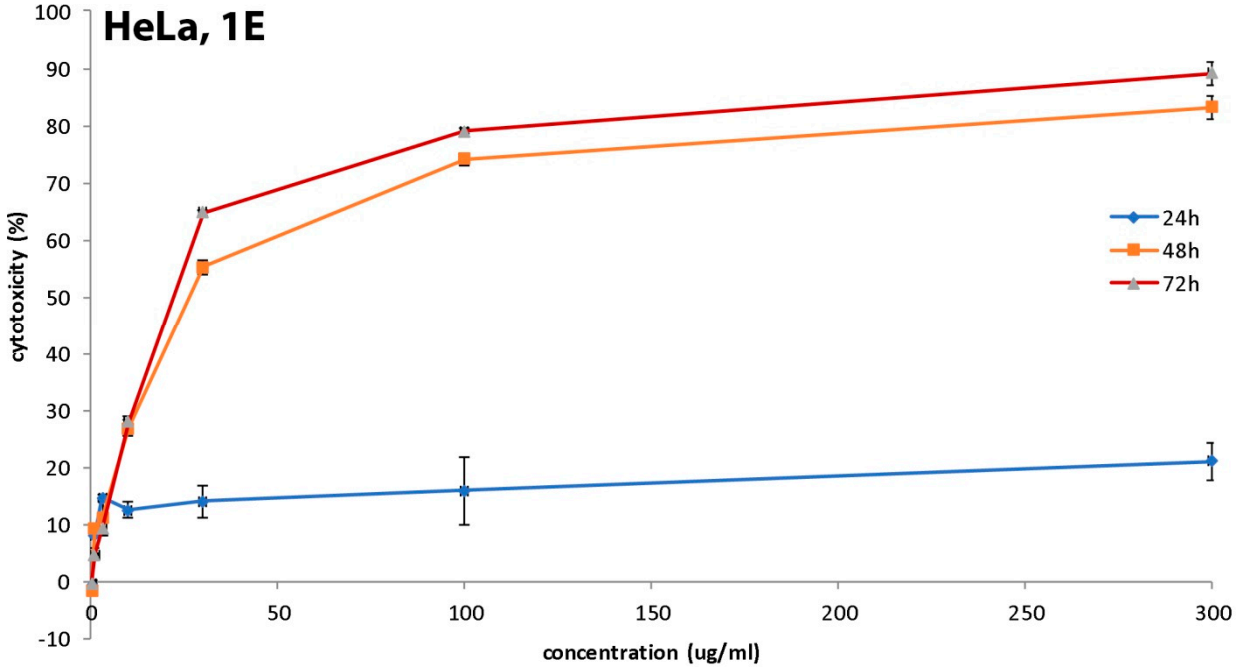

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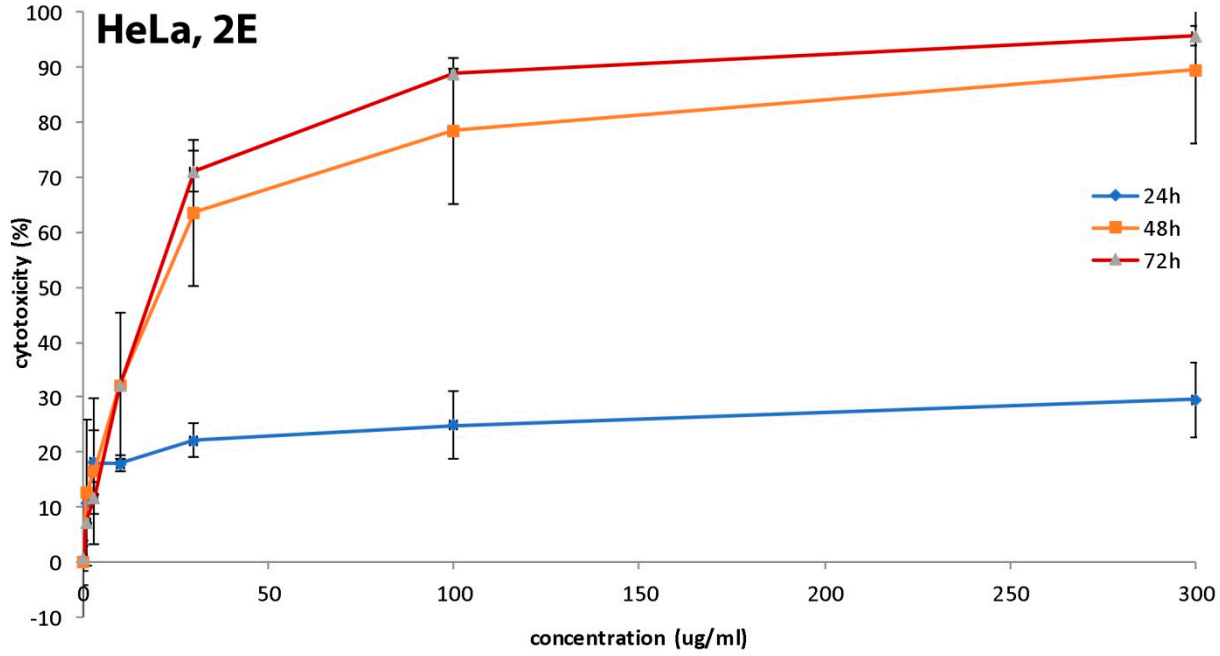

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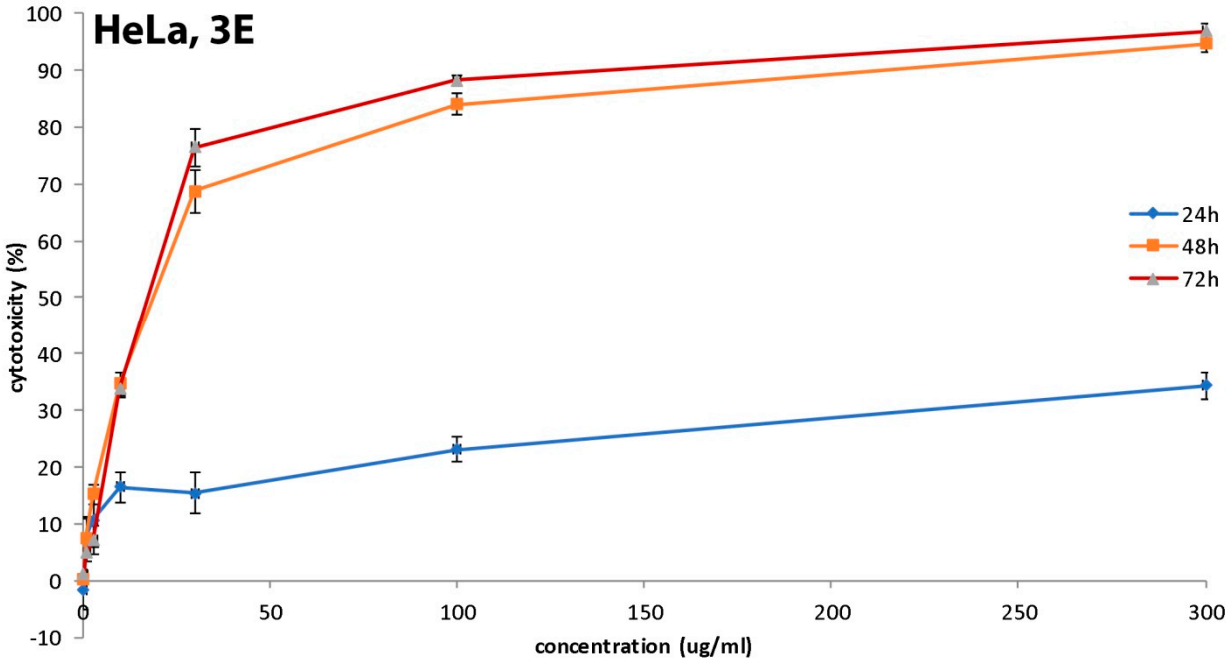

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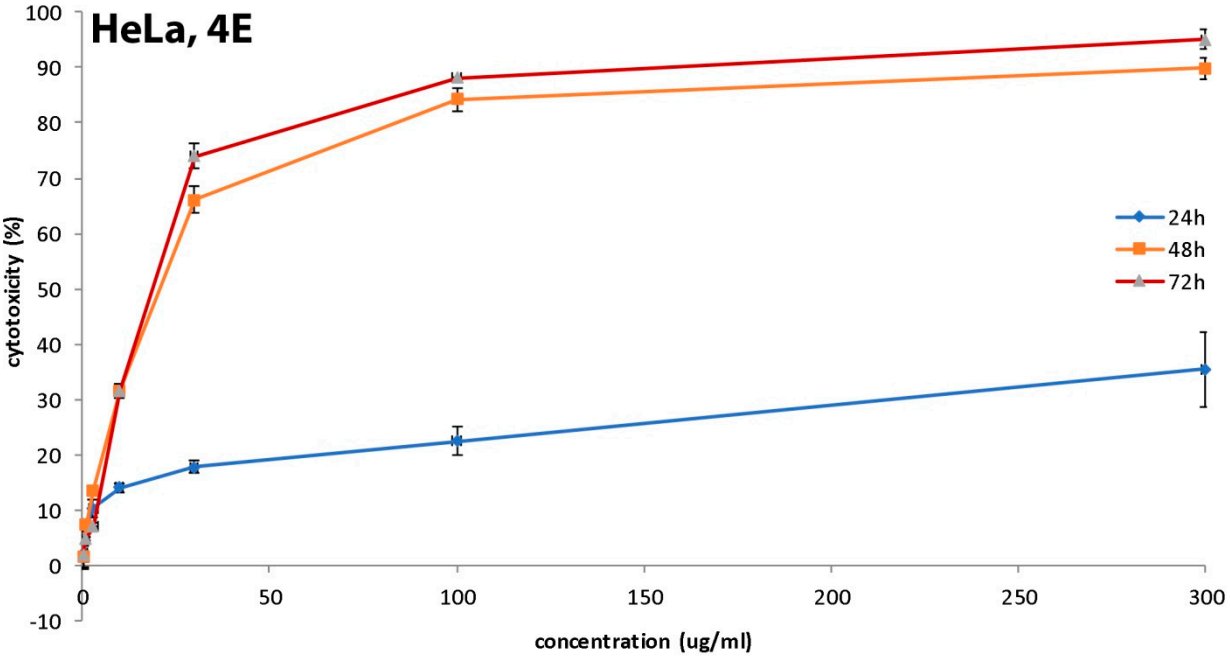

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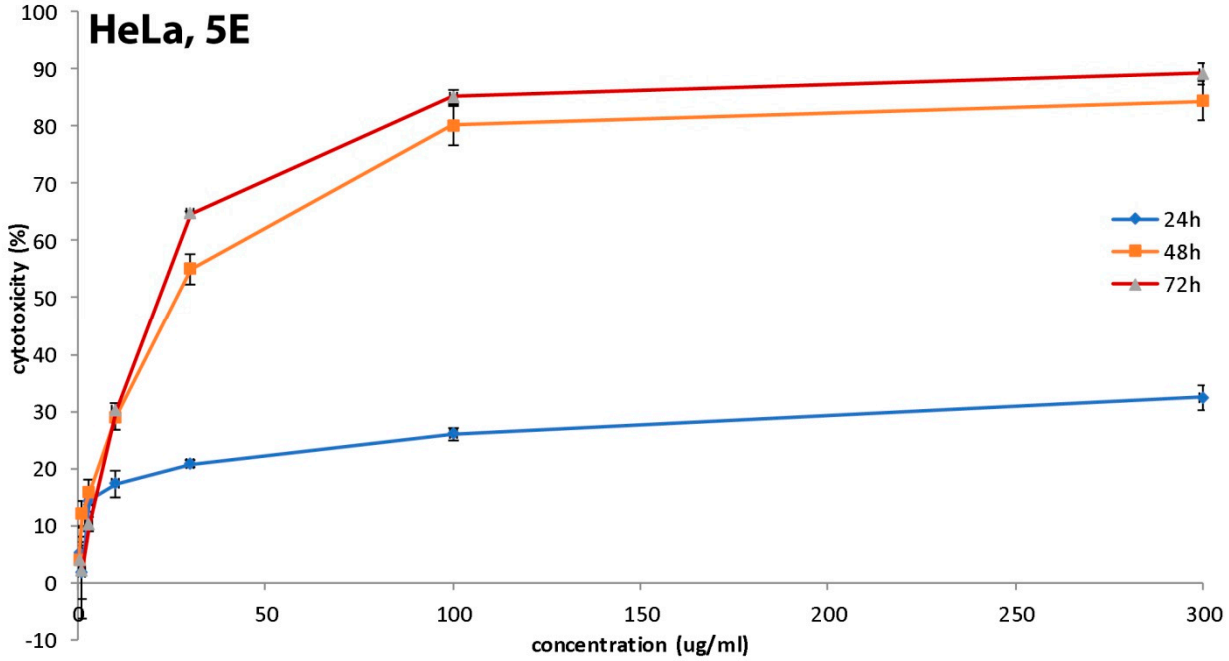

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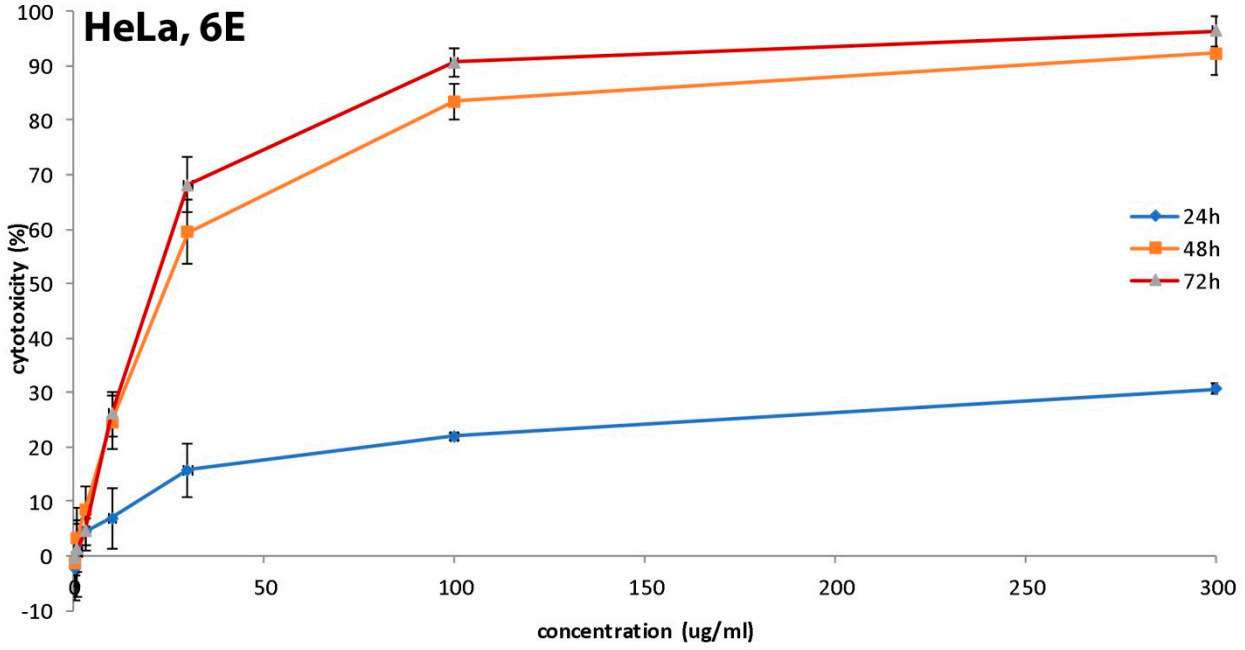

Table S1. Component loadings and score coefficients for constituents of *Hyssopus officinalis* essential oils. Significant characters of separation (factor loadings higher than ± 0.7) were marked bold.

Variable	Component loadings				Component score coefficients (eigenvectors)			
	PC 1	**PC 2**	**PC 3**	**PC 4**	**PC 1**	**PC 2**	**PC 3**	**PC 4**
α-Thujene	0.472	0.146	-0.128	**0.858**	0.150	0.061	-0.081	0.607
α-Pinene	**-0.707**	0.700	0.093	-0.008	-0.224	0.292	0.059	-0.006
Sabinene	**-0.863**	-0.019	0.473	0.060	-0.274	-0.008	0.299	0.042
β-Pinene	**0.821**	0.285	0.476	-0.134	0.260	0.119	0.301	-0.095
β-Myrcene	**-0.798**	-0.271	0.412	-0.021	-0.253	-0.113	0.260	-0.015
p-Cymene	-0.562	**0.808**	-0.145	0.016	-0.178	0.337	-0.091	0.012
Limonene	**0.902**	-0.239	-0.205	0.292	0.286	-0.100	-0.130	0.206
1,8-Cineole	**-0.905**	-0.324	-0.237	0.095	-0.287	-0.135	-0.150	0.067
Z-*β*-Ocimene	**-0.866**	-0.301	-0.164	0.310	-0.275	-0.126	-0.104	0.219
E-*β*-Ocimene	-0.645	-0.490	0.552	0.050	-0.205	-0.204	0.349	0.036
γ-Terpinene	**-0.745**	0.610	0.190	0.097	-0.236	0.254	0.120	0.069
trans-Pinocarveol	-0.274	**0.915**	-0.091	-0.266	-0.087	0.381	-0.057	-0.188
trans-Pinocamphone	**0.851**	0.166	0.163	0.376	0.270	0.069	0.103	0.266
Pinocarvone	0.550	0.367	0.387	-0.609	0.174	0.153	0.244	-0.430
cis-Pinocamphone	0.813	0.204	0.403	0.011	0.258	0.085	0.254	0.008
Myrtenal	-0.311	**0.939**	-0.147	-0.015	-0.099	0.391	-0.093	-0.011
Myrtenyl acetate	-0.427	**0.893**	-0.098	0.073	-0.135	0.372	-0.062	0.052
β-Bourbonene	-0.143	-0.348	**-0.812**	-0.444	-0.045	-0.145	-0.513	-0.314
Methyl eugenol	**0.775**	-0.214	0.091	-0.411	0.246	-0.089	0.057	-0.290
E-*β*-Caryophyllene	-0.645	-0.490	0.552	0.050	-0.205	-0.204	0.349	0.036
Germacrene D	-0.642	-0.667	-0.149	-0.290	-0.204	-0.278	-0.094	-0.205