

Supplementary Material

Early detection of toxic cyanobacteria in Bulgarian dam water and *in vitro* evaluation of the effect of saponins from *Astragalus glycyphyllos* and *A. glycyphylloides*, in cyanotoxin (anatoxin- α)-induced neurotoxicity

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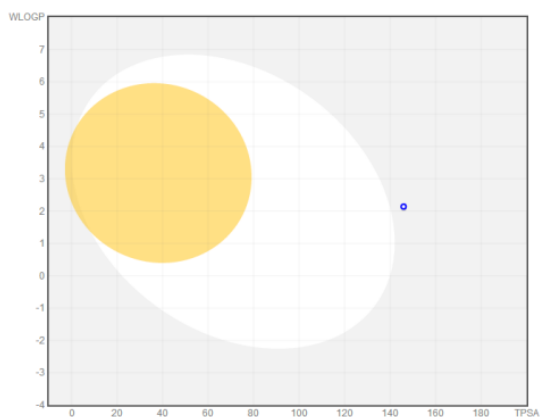
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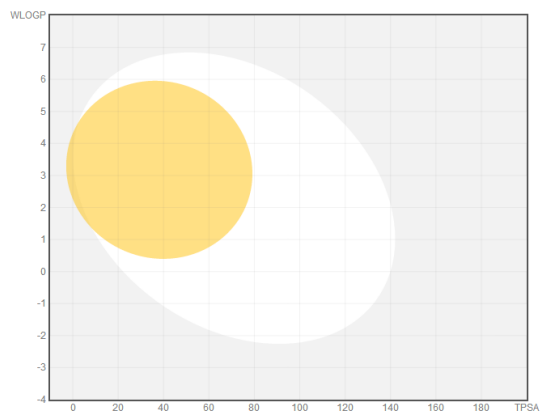
Supplementary Table 1. Results of the PCR analysis. Data are mean values \pm SD. Groups were compared by non-parametric Mann-Whitney test. Standard 7300 Mode

Sample name	Detector	Task	Ct	SD Ct
NTC*	<i>Cyano 16s</i>	NTC*	36.39	0.258
NTC*	<i>Cyano 16s</i>	NTC*	36.75	0.258
POS Durankulak1	<i>Cyano 16s</i>	POS**	112.53	0.144
POS Durankulak 2	<i>Cyano 16s</i>	POS**	111.29	0.144
Studena 1 (Xantogenate)	<i>Cyano 16s</i>	Unknown	24.38	0.112
Studena 2 (Xanthogenate)	<i>Cyano 16s</i>	Unknown	24.41	0.112
Studena 1 (Fast Lysis buffer)	<i>Cyano 16s</i>	Unknown	19.50	0.026
Studena 2 (Fast Lysis buffer)	<i>Cyano 16s</i>	Unknown	19.35	0.026
Pchelina 1 (xanthogenate)	<i>Cyano 16s</i>	Unknown	15.43	0.208
Pchelina 2 (xanthogenate)	<i>Cyano 16s</i>	Unknown	15.14	0.208
Pchelina 1 (Fast Lysis buffer)	<i>Cyano 16s</i>	Unknown	14.35	0.285
Pchelina 2 (Fast Lysis buffer)	<i>Cyano 16s</i>	Unknown	14.22	0.285
Bistritsa 1 (xanthogenate)	<i>Cyano 16s</i>	Unknown	21.46	0.433
Bistritsa 2 (xanthogenate)	<i>Cyano 16s</i>	Unknown	21.37	0.433
Bistritsa 1 (Fast Lysis buffer)	<i>Cyano 16s</i>	Unknown	21.23	0.085
Bistritsa 2 (Fast lysis buffer)	<i>Cyano 16s</i>	Unknown	21.05	0.085

*NTC – negative control, nuclease-free water; **POS – Positive internal control

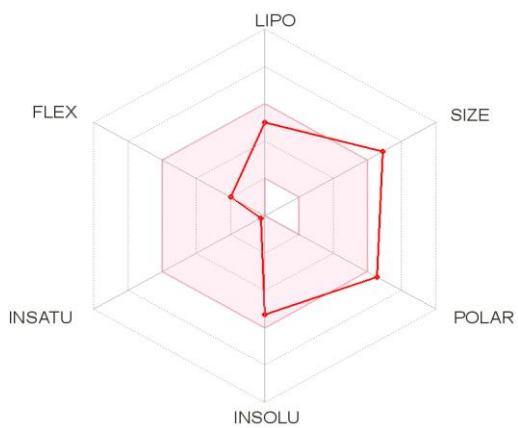


S1

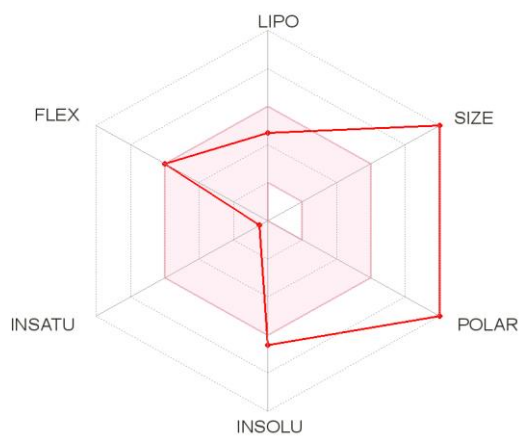


S2

Supplementary Figure 1. Representation of the BOILED-Egg model for the investigated compounds.



S1



S2

Supplementary Figure 2. Bioavailability Radar prediction of drug-likeness of the investigated compounds.