

Supplementary Materials

Table S1: Effect of GGE on mouse body weight with single intragastric administration at a dose of 2 g/kg of mouse body weight.

Study Group	Initial body weight of mice, g	Mice body weight after 1 week of administration of Dry Extract of Licorice Roots, g	Mice body weight after 2 weeks of administration of Dry Extract of Licorice Roots, g
1 group, Dry Extract of Licorice Roots, ♂, n=6	32.4±0.8 p=0.5541	33.9±1.7 p=0.3961	35.4±1.5 p=0.4287
2 group, control, ♂, n=6	31.8±0.8	32.0±1.3	33.7±1.5
3 group, Dry Extract of Licorice Roots, ♀, n=6	29.3±1.5 p=0.4511	31.9±1.2 p=0.5066	31.5±1.2 p=0.2331
4 group, control, ♀, n=6	30.8±1.2	31.9±1.3	33.5±1.0

Table S2: GGE for the urine biochemical values one day after the administration of GGE with single intragastric administration at a dose of 2 g/kg of mouse body weight;

Study Group	Test parameters				
	Red Blood Cells, Units/ μ L	Ketones, mmol/L	Protein, g/l	Glucose, mmol/L	pH, units
1 group, GGE, ♂, n=6	3/6 – 25 Units/ μ L 2/6 – 50 Units/ μ L 1/6 – 250 Units/ μ L	6/6 – negative	6/6 – 0.1 g/l	3/6 – negative 1/6 – 2.8 mmol/L 2/6 – 14 mmol/L	6.0±0.0 (6/6–6.0)
2 group, control, ♂, n=6	6/6 – negative	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	6/6 – negative	6.0±0.0 (6/6–6.0)
3 group, GGE, ♀, n=6	3/6 – negative 2/6 – 10 Units/ μ L 1/6 – 25 Units/ μ L	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	3/6 – negative 2/6 – 2.8 mmol/L 1/6 – 5.6 mmol/L	6.0±0.0 (6/6–6.0)
4 group, control, ♀, n=6	6/6 – negative	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	6/6 – negative	6.0±0.0 (6/6–6.0)
Note: n – number of animals in a group					

Table S3: Effect of GGE on the urine biochemical values one week after the administration of GGE with single intragastric administration at a dose of 2 g/kg of mouse body weight.

Study Group	Test parameters				
	Red Blood Cells, Units/ μ L	Ketones, mmol/L	Protein, g/l	Glucose, mmol/L	pH, units
1 group, GGE, ♂, n=6	4/6 – 10 Units/ μ L 1/6 – 25 Units/ μ L 1/6 – 50 Units/ μ L	6/6 – negative	5/6 – 0.1 g/l 1/6 – 0.3 g/l	5/6 – negative 1/6 – 5.6 mmol/L	6.0 $\pm$ 0.0 (6/6–6.0)
2 group, control, ♂, n=6	6/6 – negative	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	6/6 – negative	6.0 $\pm$ 0.0 (6/6–6.0)
3 group, GGE, ♀, n=6	3/6 – negative 2/6 – 10 Units/ μ L 1/6 – 25 Units/ μ L	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	6/6 – negative	6.0 $\pm$ 0.0 (6/6–6.0)
4 group, control, ♀, n=6	6/6 – negative	6/6 – negative	4/6 – 0.1 g/l 2/6 – 0.3 g/l	6/6 – negative	6.0 $\pm$ 0.0 (6/6–6.0)

Note: n – number of animals in a group

Table S4: Effect of GGE on the weight of internal organs of mice with single intragastric administration at a dose of 2 g/kg of mouse body weight.

Study Group	Weight of internal organs, g						
	Brain	Heart	Lungs	Liver	Spleen	Kidneys	Gonads
1 group, GGE, ♂, n=6	0.359±0.01 3 p=0.1224	0.144±0.01 3 p=0.4724	0.178±0.01 0 p=0.3324	1.697±0.08 2 p=0.1836	0.200±0.018 p=0.7327	0.179±0.0 04 p=0.0000 2	0.0159± 0.0004 p=0.610 5
2 group, control, ♂, n=6	0.397±0.01 8	0.154±0.00 7	0.200±0.01 8	1.880±0.09 8	0.208±0.015	0.241±0.0 10	0.0155± 0.0008
3 group, GGE, ♀, n=6	0.350±0.01 9 p=0.2464	0.151±0.00 1 p=0.7680	0.172±0.02 5 p=0.5157	1.579±0.07 6 p=0.1400	0.224±0.015 p=0.8493	0.153±0.0 05 p=0.0000 004	0.0057± 0.0005 p=0.796 2
4 group, control, ♀, n=6	0.379±0.01 4	0.146±0.01 6	0.195±0.02 1	1.754±0.07 8	0.220±0.008	0.197±0.0 04	0.0059± 0.0007

Note: ♂ – male symbol; ♀ – female symbol; p – significance level, p<0.05 – statistically significant differences compared to the corresponding values in the control group of animals; n – number of animals in the group