

Supplementary Materials

Bioactive Components Analysis and Pharmacological Properties of Extracts and Metabolites of Lichen *Umbilicaria crustulosa*

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1. Acute oral toxicity data

Table S1. Body mass, food intake and water intake data of animals included in testing acute oral toxicity of *U. crustulosa* acetonc extract – first cycle

UCA 2000 mg/kg									
	Rat 1			Rat 2			Rat 3		
	BM	FI	WI	BM	FI	WI	BM	FI	WI
Day 1	217	21	18	214	29	23	213	25	25
Day 2	227	23	19	220	29	24	217	30	20
Day 3	235	24	19	221	25	20	221	21	19
Day 4	234	20	24	227	28	22	226	28	18
Day 5	240	27	24	233	21	23	234	22	23
Day 6	247	22	21	239	30	24	234	30	18
Day 7	253	26	18	244	30	18	244	28	22
Day 8	259	25	20	248	28	23	246	30	23
Day 9	262	20	22	253	21	18	255	30	19
Day 10	265	29	24	261	23	23	260	26	25
Day 11	274	22	20	269	27	21	264	20	23
Day 12	281	20	18	271	23	18	272	30	22
Day 13	285	26	20	276	29	18	280	29	19
Day 14	293	27	22	286	28	25	287	24	25

UCA - *U. crustulosa* acetonc extract; DE – day of experiment; BM –body mass; FI – food intake; WI – water intake

Table S2. Body mass, food intake and water intake data of animals included in testing acute oral toxicity of *U. crustulosa* acetonc extract – second cycle

UCA 2000 mg/kg									
	Rat 1			Rat 2			Rat 3		
	BM	FI	WI	BM	FI	WI	BM	FI	WI
Day 1	216	21	18	214	29	23	213	25	25
Day 2	225	23	19	220	29	24	217	30	20
Day 3	232	24	19	221	25	20	221	21	19
Day 4	238	20	24	227	28	22	226	28	18
Day 5	238	27	24	233	21	23	234	22	23
Day 6	243	22	21	239	30	24	234	30	18
Day 7	251	26	18	244	30	18	244	28	22
Day 8	255	25	20	248	28	23	246	30	23
Day 9	258	20	22	253	21	18	255	30	19
Day 10	264	29	24	261	23	23	260	26	25
Day 11	273	22	20	269	27	21	264	20	23
Day 12	280	20	18	271	23	18	272	30	22
Day 13	288	26	20	276	29	18	280	29	19
Day 14	291	27	22	286	28	25	287	24	25

UCA - *U. crustulosa* acetonc extract; DE – day of experiment; BM –body mass; FI – food intake; WI – water intake

Table S3. Body mass, food intake and water intake data of animals included in testing acute oral toxicity of *U. crustulosa* methanolic extract – first cycle

UCA 2000 mg/kg									
	Rat 1			Rat 2			Rat 3		
	BM	FI	WI	BM	FI	WI	BM	FI	WI
Day 1	215	26	19	210	29	25	214	20	21
Day 2	228	27	23	216	24	19	216	24	20
Day 3	233	29	24	220	22	21	220	26	21
Day 4	234	29	21	229	21	25	225	26	20
Day 5	240	29	21	235	28	24	234	28	24
Day 6	244	28	24	239	20	25	234	25	25
Day 7	252	20	21	246	22	19	244	21	23
Day 8	259	24	19	248	23	19	246	24	23
Day 9	262	26	19	255	22	25	254	20	18
Day 10	263	30	24	258	25	25	262	21	22
Day 11	271	27	20	267	27	25	266	20	19
Day 12	283	25	22	273	23	22	276	22	18
Day 13	286	20	25	275	27	19	282	22	22
Day 14	290	30	19	283	22	23	291	20	19

UCM - *U. crustulosa* methanolic extract; DE – day of experiment; BM –body mass; FI – food intake; WI – water intake

Table S4. Body mass, food intake and water intake data of animals included in testing acute oral toxicity of *U. crustulosa* methanolic extract – second cycle

	UCA 2000 mg/kg								
	Rat 1			Rat 2			Rat 3		
	BM	FI	WI	BM	FI	WI	BM	FI	WI
Day 1	218	20	24	211	22	20	212	24	24
Day 2	228	27	20	217	26	24	213	22	20
Day 3	235	29	21	220	25	22	219	30	22
Day 4	238	29	22	228	21	22	223	21	23
Day 5	238	27	20	236	25	24	233	28	18
Day 6	245	21	20	239	20	21	237	30	23
Day 7	254	20	18	247	25	24	245	23	22
Day 8	258	26	20	249	24	20	249	21	25
Day 9	258	29	19	252	27	23	254	22	25
Day 10	267	25	24	259	29	22	262	24	21
Day 11	274	25	22	268	29	19	267	26	20
Day 12	279	25	19	271	25	23	276	21	18
Day 13	285	23	21	275	20	25	280	30	20
Day 14	290	29	20	284	20	25	290	29	19

UCM - *U. crustulosa* methanolic extract; DE – day of experiment; BM –body mass; FI – food intake; WI – water intake

Table S5. Toxicity parameters examined after oral administration of acetonic and methanolic extract of *U. crustulosa* in a dose of 2000 mg/kg

Toxicity indicators	I cycle		II cycle	
	UCA 2000 mg/kg	UCM 2000 mg/kg	UCA 2000 mg/kg	UCM 2000 mg/kg
Abnormalities of eyes, mucous membranes, skin and fur	No	No	No	No
Behavioral changes	No	No	No	No
Increased motor activity	No	No	No	No
Diarrhea	No	No	No	No
Salivation	No	No	No	No
Prostration	No	No	No	No
Tremor	No	No	No	No
Convulsions	No	No	No	No
Coma	No	No	No	No
Death	No	No	No	No

UCA - *U. crustulosa* acetonic extract; UCM - *U. crustulosa* methanolic extract;