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Table 1

Assessment of anti-inflammatory and analgetic activities of golden camomile herb water extraction (1:10)

Parameters	Control group	Experimental group	
Investigation of anti-inflammatory activity			
		Water extraction	Nimesulide
Growth of the foot, %	106,4±13,2	52,1±18,78; p<0,05	33,9±6,8; p<0,05
Braking, %	–	51,0	68,1
Investigation of analgesic activity			
		Water extraction	Metamizole sodium
Number of cramp	26,4±5,4	1,0±0,5; p<0,05	16,0±3,5; p<0,05
Reduction, %	–	96,2	39,4

Conclusions. Thus, water extraction from golden camomile herb showed anti-inflammatory activity which slightly concedes nimesulide one, and the analgesic much exceeding activity of metamizole sodium.

The received results indicate relevance of further studying of golden camomile for the purpose of modern effective medicines creation on its basis.

THE COMPARATIVE INVESTIGATION OF THE LIPOPHILIC COMPOUNDS OF PORTULACA OLERACEA L. AND PORTULACA GRANDIFLORA HOOK.

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Introduction. *Portulaca oleracea* L. and *Portulaca grandiflora* Hook. have been used in folk medicine since ancient times, but their chemical composition has been insufficiently studied. Therefore, there is need to carry out the complex pharmacognostic study of these plants. Lipophilic pigments (chlorophylls and carotenoids) play an important role in the processes of the plant vital activity and have a sufficient range of pharmacological activity. Therefore, the study of lipophilic compounds of *Portulaca oleracea* L. and *Portulaca grandiflora* Hook. is an expedient.

Aim. The comparative investigation of the lipophilic compounds of *Portulaca oleracea* L. and *Portulaca grandiflora* Hook.

Materials and methods. The investigation was carried out by using methods of thin-layer chromatography and spectrophotometry.

Results and discussion. The presence of chlorophyll α , chlorophyll β , carotenoids and β -sitosterol in the lipophilic extracts of *Portulaca oleracea* L. and *Portulaca grandiflora* Hook. was identified by using chromatographic method. The quantitative content of chlorophyll α , chlorophyll β and carotenoids in the aboveground and underground parts of *Portulaca oleracea* L. and *Portulaca grandiflora* Hook. was determined by using spectrophotometric method.

Conclusions. The highest quantitative content of chlorophyll α (1,168±0,015 mg/g), chlorophyll β (0,729±0,045 mg/g) and carotenoids (0,235±0,006 mg/g) was determined in the aboveground part of *Portulaca oleracea* L. The obtained results of investigation can be used for developing methods of qualitative control on the medicinal plant material.

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