

Confirmation of antiviral properties of medicinal plants via chemical analysis, machine learning methods and antiviral tests: methodological approach

Tomas Drevinskas¹, Rūta Mickienė¹, Audrius Maruška¹, Mantas Stankevičius¹, Nicola Tiso¹, Algirdas Šalomska², Raimundas Lelešius^{3,2}, Agneta Karpovaitė², Ona Ragažinskienė⁴

¹Faculty of Natural Sciences, Instrumental Analysis Open Access Centre, Vytautas Magnus University, Vileikos str. 8, LT44404, Kaunas, Lithuania

²Department of Veterinary Pathobiology, Veterinary Academy of Lithuanian University of Health Science Tilžės str.18, LT - 47181, Kaunas, Lithuania

³Institute of Microbiology and Virology, Veterinary Academy of Lithuanian University of Health Science Tilžės str.18, LT - 47181, Kaunas, Lithuania

⁴Sector of Medicinal Plants, Kaunas Botanical Garden of Vytautas Magnus University, Z. E. Žilibero str. 6, LT - 46324 Kaunas, Lithuania

Corresponding author: audrius.maruska@vdu.lt (Prof. A. Maruška)

Table S1

Samples and plant herbarium numbers

Sample number	English, Latin plant name and plant part used	Plant herbarium number
1.	Mountain savory <i>Satureja montana</i> L. (Aerial part)	XX-0-KAUN-1964-O0283
2.	Roman chamomile <i>Chamaemelum nobile</i> L. All. (Aerial part)	XX-0-KAUN-1924-O0049
3.	Korean perilla <i>Perilla frutescens</i> (L.) Britton. (Aerial part)	XX-0-KAUN-1997-O0256
4.	Blue giant hyssop <i>Agastache foeniculum</i> (Pursh) Kuntze (Aerial part)	XX-0-KAUN-1972-O0216
5.	Oregano <i>Origanum vulgare</i> L. (Aerial part)	LT-0-KAUN-1973-O0252
6.	Peppermint <i>Mentha piperita</i> L. (Aerial part)	XX-0-KAUN-1980-O0242
7.	Bigroot geranium <i>Geranium macrorrhizum</i> L. (Aerial part)	XX-0-KAUN-1970-O0197
8.	Lemon balm <i>Melissa officinalis</i> L. (Aerial part)	XX-0-KAUN-1924-O0234
9.	Wild celery <i>Angelica archangelica</i> (Aerial part)	XX-0-KAUN-1924-O0015
10.	Wild celery <i>Angelica archangelica</i> (Roots)	XX-0-KAUN-1924-O0015
11.	German thyme <i>Thymus vulgaris</i> L. (Aerial part)	XX-0-KAUN-1924-O0291
12.	Hyssop	XX-0-KAUN-1980-O0225

	<i>Hyssopus officinalis</i> L. (Aerial part)	
13.	Catnip	XX-0-KAUN-1980-O0245
	<i>Nepeta cataria</i> var. <i>citriodora</i> (Dumort.) Lej. (Aerial part)	
14.	Eastern purple coneflower	XX-0-KAUN-1960-O0087
	<i>Echinacea purpurea</i> (L.) Moench (Aerial part)	
15.	Sage	XX-0-KAUN-1924-O0266
	<i>Salvia officinalis</i> L. (Aerial part)	
16.	Canadian tick-trefoil	XX-0-KAUN-1990-O0180
	<i>Desmodium canadense</i> (L.) DC. (Aerial part)	
