

DEPARTMENT OF FOOD CHEMISTRY AND BIOCATALYSIS

Test Report

Sample name:	Apigenin
Client:	Hansen Sp. z o.o., ul. Zaborowska 8, 05-083 Zaborów, Poland
Purpose of test: Sample description: Brand name:	Verification of delivered product "Pure apigenin" Hansen Supplements

Description of substance:

Sample size:	10g
Property:	pale-yellow powder
Forumla:	$C_{15}H_{10}O_5$
CAS number:	520-36-5
Structure:	



Batch No.:	030771230614	
Date received:	20.06.2024	
Test items:	Identification of substance, purity, heavy metals	
Summary:	The sample has been identified and found to be of high quality	
Measured purity:	Above 98% according to ¹ H NMR analysis. Appropriate spectra are	
	shown in (Fig. 2).	

Authentication method: Standard and literature Victor, M.M., David, J.M., Sakukuma, M.C., França, E.L. and Nunes, A.V., 2018. A simple and efficient process for the extraction of naringin from grapefruit peel waste. *Green Processing and Synthesis*, *7*(6), pp.524-529. ¹H and ¹³C shifts.

All values are within the relevant standards

Test results: Purity:





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Heavy metals: n.d. Pb (Lead): n.d.

Hg (Mercury): n.d. Cd (Cadmium): n.d. As (Arsen): n.d.

Comments:

n.d. - not detected, below limit of detection on AAS spectr AA240FS + AA240Z + GTA120

- **Date:** 29.06.2024
- Tested by: Antoni Szumny



Figure 1. Chemical structure of apigenin





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Figure 2. ¹H spectrum of apigenin batch 030771230614 (in DMSO);





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Figure 2b. ¹³C of apigenin spectrum batch 030771230614 (in DMSO);

29.06.2024 prof. dr hab. Antoni Szumny

