

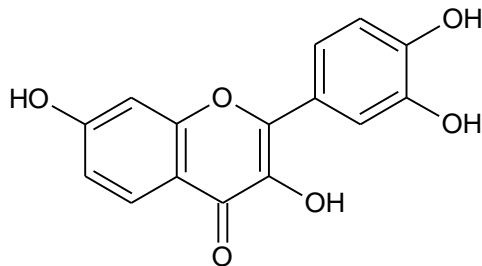


Test Report

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

Description of substance:

Sample size: 10g
Property: pale-yellow powder
Formula: C₁₅H₁₀O₆
CAS number: 528-48-3
Structure:



Batch No.: FIS 030039211127
Date received: 01.02.2022
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 ¹H NMR analysis. Appropriate spectra are shown in (Fig. 2a and 2b).

Authentication method: Standard and literature Tsunekawa, R., Hanaya, K., Higashibayashi, S. and Sugai, T., 2018. Synthesis of fisetin and 2', 4', 6'-trihydroxydihydrochalcone 4'-O-β-neohesperidoside based on site-selective deacetylation and deoxygenation. Bioscience, biotechnology, and biochemistry, 82(8), pp.1316-1322. ¹H and ¹³C shifts.

All values are within the relevant standards



Test results:

Purity:

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: 02.04.2022

Tested by: Antoni Szumny

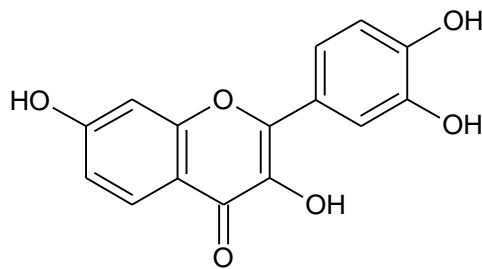


Figure 1. Chemical structure of fisetin

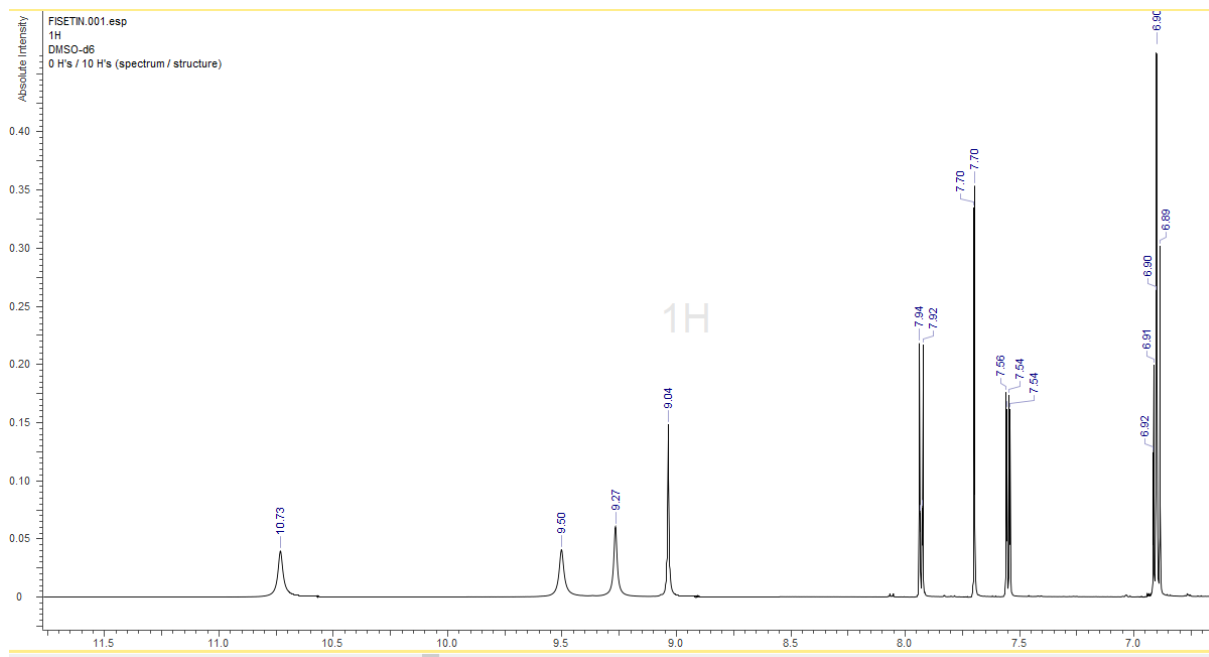


Figure 2. ^1H spectrum of fisetin, batch 030039211127 (in DMSO);

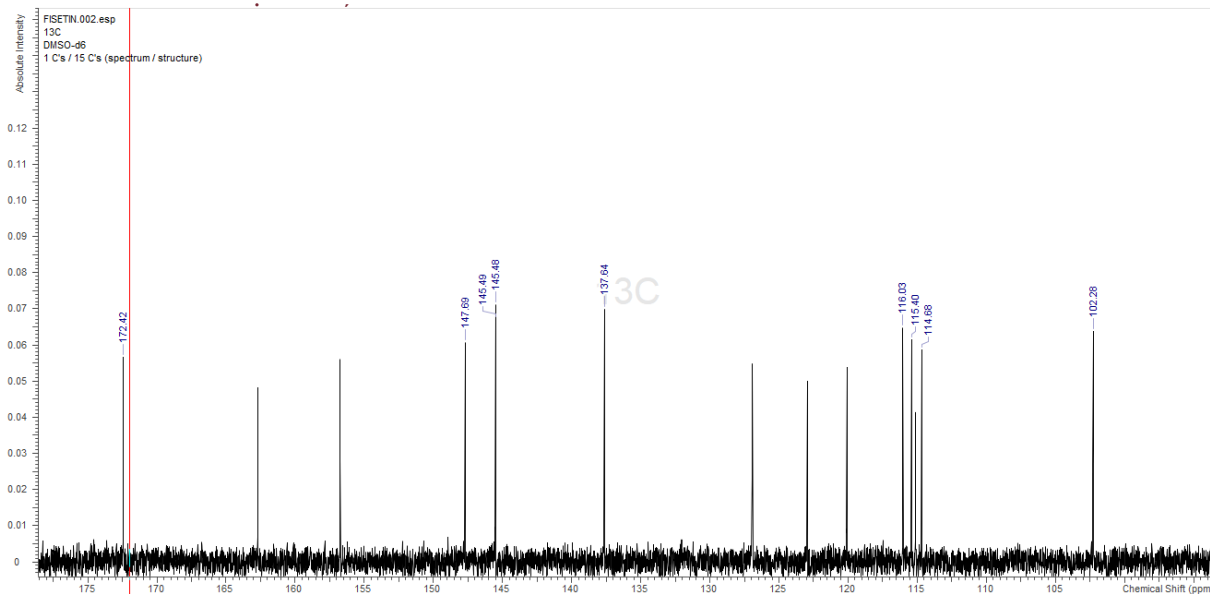


Figure 2b. ^{13}C spectrum of fisetin, batch 030039211127 (in DMSO);

02.04.2022 Antoni Szumny

