

Title (en)
METHOD FOR DETERMINING THE CONCENTRATION OF GLUCORAPHANIN AND/OR SULFORAPHANE IN A PLANT

Title (de)
VERFAHREN ZUM BESTIMMEN DER KONZENTRATION VON GLUCORAPHANIN UND/ODER VON SULFORAPHAN IN EINER PFLANZE

Title (fr)
PROCÉDÉ POUR LA DÉTERMINATION DE LA CONCENTRATION EN GLUCORAPHANINE ET/OU EN SULFORAPHANE DANS UNE PLANTE

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Application
EP 15754115 A 20150811

Priority
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Abstract (en)
[origin: WO2016029998A1] In a method for determining the concentration of glucoraphanin in a plant, a sample of the plant is provided, the sample is brought into contact with a polar, uncharged organic solvent and comminuted in such a way that glucoraphanin contained in the sample and further plant substances contained in the sample are dissolved in the solvent and undissolved plant constituents are removed from the extract obtained thus in order to clarify the extract. A UV absorption measurement of the clarified extract containing the glucoraphanin and the further plant substances is carried out, in which an absorption measurement signal $a(\lambda)$ is detected for a first wavelength range between 200 nm and 270 nm. The second $d^2a(\lambda)/d\lambda^2$ derivative of the absorption measurement signal $a(\lambda)$ is formed for a second wavelength range between 240 nm and 250 nm. The value of the minimum of the second derivative in the second wavelength range is determined and a concentration value for the concentration of the glucoraphanin is determined in accordance with this value.

IPC 8 full level
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Citation (search report)
See references of WO 2016029998A1

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