

Title (en)

METHOD FOR DETERMINING INFORMATION ABOUT MOLECULAR WEIGHT OF POLYMERS

Title (de)

VERFAHREN ZUM BESTIMMEN DER INFORMATION ÜBER DAS MOLEKULARGEWICHT VON POLYMEREN

Title (fr)

PROCÉDÉ DE DÉTERMINATION D'INFORMATIONS CONCERNANT LE POIDS MOLÉCULAIRE DE POLYMÈRES

Publication

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Application

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Abstract (en)

[origin: WO2014083035A1] The present invention relates to a method for determining information about the molecular weight of at least one polymer comprised in a polymer composition using planar chromatography, said method comprising the steps of: a') eluting at least one polymer composition in at least one elution trail along at least one elution axis of a planar chromatography plate; said polymer composition comprising at least two polymers; a) exposing said planar chromatography plate or part thereof having said at least one elution trail along said at least one elution axis of said planar chromatography plate to an incident radiation; b) recording the emission response of said planar chromatography plate or part thereof in response to said incident radiation; c) converting said emission response into image data which comprise a plurality of pixels and intensity data associated with each of the pixels; d) selecting from said image data at least one elution trail along said at least one elution axis of said planar chromatography plate; e) segmenting each of said at least one elution trail into at least two segments positioned next to each other along the elution axis of the elution trail to create segmented data sets; f) calculating the mean intensity value of each segment from the segmented data sets; g) reporting the mean intensity value of each segment as a function of the position of each segment along the elution axis of the elution trail; h) comparing the results of step (g) with a reference; and j) determining information about the molecular weight of said at least one polymer.

IPC 8 full level

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See references of WO 2014083035A1

Citation (examination)

- EP 0437968 A2 19910724 - RES DEV FOUNDATION [US]
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- AMBER VICTORIA IRISH HESS: "Digitally Enhanced Thin-Layer Chromatography: An Inexpensive, New Technique for Qualitative and Quantitative Analysis", JOURNAL OF CHEMICAL EDUCATION, vol. 84, no. 5, 1 May 2007 (2007-05-01), pages 842 - 847, XP055204157, ISSN: 0021-9584, DOI: 10.1021/ed084p842

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