

Title (en)
SYSTEM AND METHOD FOR DETERMINING RADIUS OF GYRATION, MOLECULAR WEIGHT, AND INTRINSIC VISCOSITY OF A POLYMERIC DISTRIBUTION USING GEL PERMEATION CHROMATOGRAPHY AND LIGHT-SCATTERING DETECTION

Title (de)
SYSTEM UND VERFAHREN ZUR BESTIMMUNG DES GYRATIONSRADIUS, DES MOLEKULARGEWICHTS UND DER INTRINSISCHEN VISKOSITÄT EINER POLYMERVERTEILUNG UNTER VERWENDUNG VON GELPERMEATIONSCHROMATOGRAPHIE UND LICHTSTREUUNGSNACHWEIS

Title (fr)
SYSTEME ET PROCEDE PERMETTANT DE DETERMINER LE RAYON DE GIRATION, LA MASSE MOLECULAIRE ET LA VISCOSITE INTRINSEQUE D'UNE DISTRIBUTION DE POLYMERES, AU MOYEN DE LA CHROMATOGRAPHIE D'EXCLUSION DIFFUSION ET DE LA DETECTION A DIFFUSION DE LUMIERE

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Abstract (en)
[origin: WO03036258A2] A system and method for analyzing data from a gel permeation chromatography (GPC) or size exclusion chromatography (SEC) system for determining a polymeric sample's radius of gyration. Data from two or more detectors (18) is used with a least-squares minimization fit (20). A novel method includes the simultaneous determination of a sample's radius of gyration using data from a light scattering detector that collects data from at least two incident angles. Detectors within the inventive method include a multi-angle light scattering (LS) detector, viscometer (V) and a refractive index (RI) detector.

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