

Title (en)

METHOD FOR MEASURING THE CONCENTRATION OF A SAMPLE BY TOTAL REFLECTION SPECTROSCOPY.

Title (de)

VERFAHREN ZUR MESSUNG DER KONZENTRATION EINER PROBE MITTELS SPEKTROSKOPIE DER INNEREN TOTALREFLEXION.

Title (fr)

PROCEDE DE MESURE DE LA CONCENTRATION D'UN ECHANTILLON PAR SPECTROSCOPIE A REFLEXION TOTALE.

Publication

**EP 0016166 A1 19801001 (DE)**

Application

**EP 79900918 A 19800325**

Priority

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Abstract (en)

[origin: WO8000494A1] In a method for measuring the concentration by means of total reflection (ATR Spectroscopy), a transparent material with a high reflection index is used to regenerate a clean optical surface pertaining to the reflecting elements. This substance acts as an intermediate layer (12, 15) between the reflecting element (4) and the sample (6). Hence, a reproducible and faultless surface is obtained as desired between the reflecting element and the sample. The properties of this surface may be adapted to the needs. The surface of the intermediate layer may be liquid or solid. The method is particularly appropriate to determine the concentrations of biological substances.

Abstract (fr)

Dans un procede pour la mesure de la concentration au moyen de la reflexion totale (spectroscopie ATR) on emploie pour regenerer une surface optique propre appartenant aux elements reflechissants une matiere transparente avec indice de refraction eleve. Cette substance joue le role d'une couche intermediaire (12, 15) entre l'element reflechissant (4) et l'echantillon (6). On obtient ainsi a volonte une surface reproductible et sans defect entre l'element reflechissant et l'echantillon. Les proprietes de cette surface peuvent etre adaptees aux besoins. La substance de la couche intermediaire peut etre liquide ou solide. Le procede convient particulierement pour determiner les concentrations de substances biologiques.

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