

Title (en)

ION SENSITIVE ELECTRODES BASED ON OXA-AZAMACROCYCLES AS IONOPHORE FOR THE DETERMINATION OF NITRATE, SALICYLATE, OR PERIODATE ANIONS

Title (de)

IONENSELEKTIVE ELEKTRODEN UNTER VERWENDUNG VON OXA-AZA-MAKROZYKLEN ALS IONTOPHOREN ZUR BESTIMMUNG VON NITRAT-, SALICYLAT-, ODER PERIODAT-ANIONEN

Title (fr)

ELECTRODES SENSIBLES AUX IONS SE BASANT SUR DES OXA-AZAMACROCYCLES EN TANT QUE IONOPHORES POUR DETERMINER LA PRESENCE D'ANIONS NITRATE, SALICYLATE OU PERIODATE

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Abstract (en)

[origin: WO02099409A1] An apparatus and method for determining the presence and/or the concentration of nitrate ions is disclosed. The apparatus includes an ion selective electrode coated with a macrocyclic free base such as 1,7,11,17-tetraoxa-2,6,12,16-tetraazacyclododecane (RN=235092-95-2) or 1,6,10,15-tetraoxa-2,5,11,14-tetraazacyclooctodecane (RN=236104-63-5). The apparatus can determine the presence of nitrate at low concentrations and has good selectivity towards nitrate ions when in the presence of certain other ions. The invention also provides a method and apparatus for determining the presence and/or concentration of salicylate and periodate ions.

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