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Abstract:

In accordance with the present invention, phenols may be identified through the utilization of an electrochemical sensor that contains a first compound, a working el an electrolyte in contact with the working electrode, wherein the first compound operatively undergoes a redox reaction at the working electrode to form a second contact with the phenol, wherein said redox reaction possesses a detectable redox couple, and wherein the sensor is adapted It's possible that anything like a cannabinoid or a catechin molecule.

Complete Specification

Description:Methods and equipment for the detection and quantitative determination of analyses, in particular phenols, phenolic compounds, and phenol derivativ the subject of the present invention.

Background of the invention:

The practice of getting behind the wheel while under the influence of cannabis is becoming more common. According to a number of studies, up to 25 percent of d who were involved in accidents tested positive for illegal drugs. Cannabis was the drug that was found the most frequently, followed by benzodiazepines, cocaine, amphetamines, and opioids. It has been demonstrated that drug use is frequently found among those who are involved in automobile collisions. Driving under the influence of drugs is a significant problem, both in terms of a general public health issue and as a specific concern for drug users. It is evident that drugs, when take combination with alcohol, and multiple drugs, present an even greater risk; drug driving is a significant problem.

The primary psychoactive ingredient in cannabis is called delta-9-tetrahydrocannabinol, or THC for short. The chemical structure of THC can be seen below: Research has demonstrated again and again that THC has a negative impact on cognitive ability, psychomotor function, and real driving performance. It has been refor instance, that the degree of performance impairment that was observed in experimental studies after doses of THC up to 300 g per kg was equivalent to the im effect of a blood alcohol concentration that was at the legal limit for driving under the influence in the majority of European countries. This is because both substar impair a person's ability to function normally. Combining THC use with alcohol consumption results in a substantial impairment of cognitive, psychomotor, and actudriving performance, which in turn raises the likelihood of being involved in an accident. Gas chromatography-mass spectrometry is the method of choice for analy cannabinoids, which are C2i chemicals that are unique to and found in cannabis, as well as their carboxylic acids, analogs, and transformation products (GC-MS). The

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