Modified screen-printed Electrode as Electrochemical Detector for Noscapine

Mohammad Reza Aflatoonian^{1,2}, Peyman Mohammadzadeh Jahani^{*3}, Behnaz Aflatoonian⁴, Maedeh Jafari⁵, Kaiqiang Zhang^{*6}, Quyet Van Le^{*7}, Joo Hwan Cha⁸, Mohammadreza Shokouhimehr⁹ and Wanxi Peng^{*10,11}

¹Research Center for Tropical and Infectious Diseases, Kerman University of Medical Sciences, Kerman, Iran

²Leishmaniasis Research Center, Kerman University of Medical Sciences, Kerman, Iran

³School of Medicine, Bam University of Medical Sciences, Bam, Iran

⁴Neuroscience Research Center, Kerman University of Medical Sciences, Kerman, Iran

⁵Department of Pediatrics, School of Medicine, Kerman University of Medical Sciences, Kerman, Iran

⁶Jiangsu Key Laboratory of Advanced Organic Materials, Key Laboratory of Mesoscopic Chemistry of MOE, School of Chemistry and Chemical Engineering, Nanjing University, Nanjing, Jiangsu 210023, China

⁷Institute of Research and Development, Duy Tan University, Da Nang 550000, Vietnam

⁸Innovative Enterprise Cooperation Center, Korea Institute of Science & Technology, Hwarangro 14-gil, Seongbuk-gu, Seoul, Korea

⁹Department of Materials Science and Engineering, Research Institute of Advanced Materials, Seoul National University, Seoul 08826, Republic of Korea

¹⁰College of Forestry, Henan Agricultural University, Zhengzhou 450002, China

¹¹School of Automotive Engineering, Huanghe Jiaotong University, Jiaozuo 454950, China

*E-mail: mjpeyman@yahoo.com, kaiqiangzhang126@126.com, Levanquyet@dtu.edu.vn, pengwanxi@163.com

doi: 10.20964/2020.09.58

Received: 17 April 2020 / Accepted: 6 July 2020 / Published: 10 August 2020

In the present study, a La³⁺-doped Co₃O₄ nanoflowers modified graphite screen-printed electrode (La³⁺-doped Co₃O₄ nanoflower/SPE) were prepared and used for voltammetric determination of noscapine. Presence nanoflowers lead to a substantial improvement in current in compare to an unmodified electrode. The diagnostic methods used for the purposes of the study include chronoamperometry, differential pulse voltammetry (DPV) and cyclic voltammetry (CV) approaches. The modified SPE was used to determine noscapine in the range of 0.3 to 600.0 µM (LOD= 0.1 µM).

Keywords: Screen printed electrode, Noscapine, Modified electrode, La³⁺/Co₃O₄ nanoflower, Voltammetry,

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