

(54) Title of the invention : FLUORESCENT PROBE AND PREPARATION METHOD THEREOF FOR DETECTION OF CU(II) AND FE(III) IONS

<p>(51) International classification :G01N0021640000, C09K0011060000, G01N0033580000, C12Q0001685800, G01N0033840000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Shiva Prasad Kollur Address of Applicant :Department of Sciences, School of Arts and Sciences, Amrita Vishwa Vidyapeetham, Mysuru Campus, Mysuru, Karnataka – 570026, India -----</p> <p>2)Rajendra Prasad Shivalingappa</p> <p>3)Chandan Shivamallu</p> <p>4)Chandrashekar Srinivasa</p> <p>5)Murali Mahadevmurthy</p> <p>6)Kestur Nagaraj Amruthesh</p> <p>7)Ashwini Prasad</p> <p>8)Veena Malligere Ankegowda</p> <p>9)Sharanagouda Siddanagouda Patil</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Shiva Prasad Kollur Address of Applicant :Department of Sciences, School of Arts and Sciences, Amrita Vishwa Vidyapeetham, Mysuru Campus, Mysuru, Karnataka – 570026, India -----</p> <p>2)Rajendra Prasad Shivalingappa Address of Applicant :Department of Studies in Chemistry, Davangere University, Shivangotri, Davangere, Karnataka - 577007, India -----</p> <p>3)Chandan Shivamallu Address of Applicant :Department of Biotechnology, School of Life Sciences, JSS Academy of Higher education and Research, Mysuru, Karnataka – 570015, India -- -----</p> <p>4)Chandrashekar Srinivasa Address of Applicant :Department of studies in Biotechnology, Davangere University, Davangere, Karnataka – 577007, India -----</p> <p>5)Murali Mahadevmurthy Address of Applicant :Applied Plant Pathology Laboratory, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysuru - 570006, Karnataka, India -----</p> <p>6)Kestur Nagaraj Amruthesh Address of Applicant :Applied Plant Pathology Laboratory, Department of Studies in Botany, University of Mysore, Manasagangotri, Mysuru - 570006, Karnataka, India -----</p> <p>7)Ashwini Prasad Address of Applicant :Department of Microbiology and Tissue Culture, School of Life Sciences, JSS Academy of Higher education and Research, Mysuru, Karnataka – 570015, India -----</p> <p>8)Veena Malligere Ankegowda Address of Applicant :Department in Chemistry, Bangalore Institute of Technology, K.R. Road, V V Puram, Karnataka, Bangalore - 560004, India -----</p> <p>9)Sharanagouda Siddanagouda Patil Address of Applicant :ICAR-National Institute of Veterinary Epidemiology and Disease Informatics, Yelahanka, Bengaluru, Karnataka – 560064, India -----</p>
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(57) Abstract :

Selective and sensitive methods for determination of metal ions are still desirable. The present invention provides a fluorescent probe based on 2-(3-ethoxy-4-hydroxybenzylideneamino)-5-hydroxybenzoic acid. The invention also provides method of preparation of fluorescent probe based on 2-(3-ethoxy-4-hydroxybenzylideneamino)-5-hydroxybenzoic acid. The fluorescent probe of present invention has application in selective and sensitive determination of the presence of Cu(II) and Fe(III) ions in the samples.

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