**COVER LETTER**

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Dear Editor of Indonesian Journal of Chemistry,

We wish to submit an original research article entitled **“The Dependence of Boron Concentration in Diamond Electrode for Ciprofloxacin Electrochemical Sensor Application**” for consideration by the Indonesian Journal of Chemistry.

We confirm that the written manuscript is original, and no part of it has been published before, nor is any part of it currently under consideration for publication elsewhere.

This research is about the Ciprofloxacin sensor performance depend on the boron concentration in diamond electrode. CIP is a broad-spectrum fluoroquinolone antibiotic that can fight gram-positive and gram-negative aerobic pathogens. The widespread use of CIP can lead to bacterial resistance, which creates problems for health and the environment. A boron doped diamond (BDD) electrode had been developed as a ciprofloxacin voltammetric sensor. This study aims to compare the dependence of variations in boron concentration on BDD electrodes in sensitivity and accuracy for ciprofloxacin sensor applications. The function of BDD electrode as a working electrode, platinum as a counter electrode and Ag/AgCl in saturated KCl as a reference electrode using the square wave voltammetry method. Ciprofloxacin is electroactive and the piperazine ring in its structure can be oxidized electrochemically on the electrode surface, so that its behavior can be observed by electroanalytical techniques. The measurement results obtained that the LOD BDD electrode 0.1%, 0.5% and 1% were 0.53 M, 0.43, and 0.17 M, respectively was linear in the concentration range of 30 – 100 M. %RSD also obtained were 1.46%, 3.23% and 1.77%, respectively. The actual application in samples of the developed method was demonstrated in the determination of ciprofloxacin in pharmaceutical samples, wastewater and milk samples. Obtained %Recovery is in the range of 85%-110%. Overall, BDD 1%give high accuracy and precision more than BDD 0.1% and 0.5%. Therefore, it is more recommended for the determination of antibiotic compounds.

Please find below a list of potential reviewers for this work.

We have no conflicts of interest to disclose.

Please address all correspondence concerning this manuscript to me at prastika.krisma@ftmm.unair.ac.id.

Your consideration is very much appreciated. We are looking forward to your favorable reply.

Sincerely,

Prastika Krisma Jiwanti Ph.D

**List of Potential Reviewers**

**Note:**

1. Reviewers should not be from the same institution as authors.

2. Reviewers have no research collaboration with authors in the last three years.

3. If possible, reviewers have a different nationality.

4. Final decision of the reviewers will be made by editors.

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