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Laccase-Based Biosensor for Determination of Acetaminophen

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SUMMARY. The use of biosensors based on laccase is an interesting alternative for monitoring phenolic compounds in pharmaceutical and environmental analysis. The detection and determination of acetaminophen in pharmaceutical samples, using a biosensor with carbon paste modified with laccase is described. The method showed good linearity (r = 0.9954) and low detection and quantification limits (2.4 x 10^{-6} mol.L^{-1} and 7.9 x 10^{-6} mol.L^{-1}, respectively). Furthermore, the proposed methodology using an enzyme electrode showed appropriated reproducibility and selectivity.

KEY WORDS: Acetaminophen, Biosensor, Laccase.

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