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[\[PDF \(876K\)\]](#) [\[References\]](#)**Application of Oxybutynin Selective Sensors for Monitoring the Dissolution Profile and Assay of Pharmaceutical Dosage Forms**[Marwa S. EL HAMSHARY^{1\)}](#), [Omar H. SALEM^{1\)}](#) and [Rasha M. EL NASHAR^{1\)2\)}](#)*1) Department of Pharmaceutical Chemistry, Faculty of Pharmacy and Biotechnology, German University in Cairo**2) Department of Chemistry, Faculty of Science, Cairo University***(Received November 8, 2009)****(Accepted January 5, 2010)**

Two ion-selective sensors of the plastic membrane type were prepared for the determination of oxybutynin hydrochloride (OxCl). They depend on the incorporation of the ion-associates with phosphotungstic acid or phosphomolybdic acid in a PVC matrix. A comparative study is made between their performance characteristics in batch and FIA conditions. The sensors have nearly the same usable concentration, temperature and pH range. They have a wide range of selectivity and can be applied for the determination of the relevant drug with nearly the same precision and accuracy *in vitro*. Dissolution testing was applied using the sensors; this offers a simple, rapid, cheap way out of sophisticated and high cost instruments used in the pharmacopeial method using HPLC. The investigated drug was determined in its pure and pharmaceutical preparations. The results were accurate and precise, as indicated by the recovery values and coefficients of variation.

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