

**SYNTHESIS OF NEW MODIFIEDS CYCLODEXTRINS AS PHARMACEUTICALS VECTORES**Assia Keniche^{1,2}, Malti Ibtissem², Si Said Mohammed El Amine³, Joseph Kajima Mulengi³

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TYPE OF ARTICLE: CONFERENCE ABSTRACT**ABSTRACT****Objective:** The aim of this study was to synthesize new modified Cyclodextrins (CDs), for study of inclusion complex of drug with CD to improve water solubility.**Methods:** In this study, the formulation of bioactive molecules (Baclofen[®], aziridine synthesis and active propolis) with amphiphilic cyclodextrin (β -CD-amph) was prepared from native β -cyclodextrin (β -CD) via the simple co-precipitation method at the University of Tlemcen, Algeria (2016).**Results:** It was of interest to find a model of molecule derivatives that would be sufficiently water-stable and form a stable complex with (β -CD-amph) in aqueous medium, so that it could be used as a reference in future formulations or vectorization work. Among the nanoformulation, NMR studies of the inclusion complex of this derivative with β -cyclodextrin provided useful parameters related to the stoichiometry of the complex and the association with constant K_a .**Conclusion:** The geometry of the complex was assessed by 2D-ROESY experiments, suggesting a deep insertion of the guest into the cavity of (β -CD-amph).**KEYWORDS:** Cyclodextrin, Bioactive molecules, Baclofen[®]