Manuscript Title:

**Effect of Formulation Parameters on Encapsulation Efficiency and Release Behavior of *p*-aminobenzoic acid (PABA)-Loaded Ethylcellulose Microspheres.**

RUNNING TITLE**:**

EFFECT OF FORMULATION VARIABLES ON MICROSPHERES CHARACTERISTICS.

Manuscript type: Original scientific paper

The attempt of this manuscript is to prepare microspheres formulations for sustained and prolonged release using microencapsulation by solvent evaporation method. The effects of formulation parameters on microspheres characteristics and release kinetics were also studied. This study allows the adjustment of process parameters using solvent evaporation method to obtain the desired microparticle sizes with high encapsulation efficiency (EE). For example, we have noted the important effect of surfactant nature (Tween 80) on the structure and morphology of microspheres by comparing with PVA (polyvinyl alcohol).

The *Journal of Serbian Chemical Society (JSCS)* publishes original research articles, review articles and scientific commentaries on all fields of chemistry with emphasis on conceptual novelty and scientific quality. More specifically, the Journal accepts publication reports on pharmaceutical and medicinal chemistry. For these reasons, we have chosen *'’J. of Serb. Chem. Soc*.'' (*JSCS*) for publication.

##### We certify that we have participated in this work and we agree to have names listed as contributors: The present study was prepared by Ms Meryem Mouffok, [PhD student](http://www.linguee.fr/anglais-francais/traduction/PhD+student.html)  directed by M. Abderrezzak. Mesli (Professor and Director of LCOPM (Laboratory of Physical and Macromolecular Organic Chemistry) in University of Sidi Bel Abbes Algeria). Mrs Ilham Abdelmalek (an Assistant Lecturer in University of Ibn Khaldoun, Tiaret) has contributed by the use of microencapsulation technique. SEM images were realized by M Etienne. Gontier (an Engineer in Bordeaux Imaging Center–UMS 3420, University of Bordeaux, France.).

We certify also that this manuscript has not been submitted to any other Journal.

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**Observation about resolution for images**

Because we have used softwares in French language, please note that ppp in our images resolution means dpi in english

dpi : Dots Per Inch

ppp : Points Par Pouce (In French)

dpi = ppp

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