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Ministry of Higher Education and Scientific Research

University Mohammed Seddik Benyahia - Jijel
Faculty of Nature and Life Sciences
Department of Applied Microbiology and Food
Sciences



جامعة محمد الصديق بن يحيى - جيجل
كلية علوم الطبيعة و الحياة
قسم الميكروبيولوجيا التطبيقية و علوم التغذية

Thesis
Presented by **Samiya AMIRA**

To obtain the Degree of Doctor of Sciences
In **Biology**

Option: Microbial Biotechnology

**Effect of microencapsulation on the viability of
probiotic bacteria under storage and simulated
gastrointestinal conditions**

Under the Supervision of: **Pr. Mohammed SIFOUR**

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