



SDI Review Form 1.6

Journal Name:	British Microbiology Research Journal
Manuscript Number:	2013_BMRJ_8004
Title of the Manuscript:	Physical and chemical aspects of Yarrowia lipolytica lipase immobilization by adsorption
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	Line 80: How many replicates of each experiment have been made? This is not stipulated in the text. Line 113 : Please give brief description of this method. Line 118 : How was the immobilized lipase activity determined? Indeed, enzyme immobilisation could modify the catalytic activities. Therefore, I would suggest to measure the protein content to determine immobilization yield instead of enzyme activity. Line 128 : the authors claimed that the presence of water could be the cause of the "low-fixing enzyme" of silica gel. However, Avicell (with a water content in the same range) has a lipase immobilization much more higher. The authors should discuss this point. Line 138 : what does "lower negative" mean? Fig 2: the authors should discuss on the result obtained at pH 7 Line 163 : the authors should develop their discussion on results presented in Table 3 and in fig 4 and 5	Three times line 95 We have corrected line 122 Immobilized lipase activity was determined by titrimetric method. All the research has been done at the bio industry laboratory of Belgium. Actually I works in the university of Nandgui abrogoua (Ivory cost) so it is difficult to measure the protein content. we used titrimetric method to measure lipase residual activity because this method is published in our works (20) Line 160 Avicel is microcrystalline cellulose which is different to structure of silica gel (particle size), respectively 50µm and 75µm. During lipase immobilization onto avicel, water content is not influence the enzyme fixation. Lower negative is deleted Line 186 ok



SDI Review Form 1.6

<u>Minor</u> REVISION comments	Line 80: How many replicates of each experiment have been made. This is not stipulated in the text. Line 113 : Please give brief description of this method. Line 142 : convert volume of lipase added into quantity	Line 169 (1ml to 7ml)
<u>Optional/General</u> comments	This paper should be accepted after minor modifications as suggested above.	