



SDI FINAL EVALUATION FORM 1.1

PART 1:

Journal Name:	International Journal of Biochemistry Research & Review
Manuscript Number:	MS: 2012 IJBcRR 2639
Title of the Manuscript:	Activatory Effect of Germination on Catalytic Capacity of Urease Extracted from Beans Samples (Effect of Germination on the Kinetics of Urease from Beans)

PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
As pointed by the authors that I did not point some unclear statements, I point it right now: Line 36: best urease ever to be crystallized. Which? From Canavalia or Kleibsiela (referred in the reference). Best based on what? Line 41: as far as I understand and know about the topic, apourease is not active. If exists one urease able to hydrolyze urea without Ni in its active site, please, cite the reference in the manuscript. So the statement " to facilitate higher urea catalysis" is not correct. The temperature of the urease assay was high and there is no explanation for that on the manuscript. Line 93: The way the authors describe the optimum temperature assay is not a correct way to do such kind of assay. They describe "thermal stability". The correct way to perform a optimum temperature assay is to make de enzymatic assay in different temperatures. If it was the way the authors did, the sentence must be rephrased. The explanation of optimum pH is ok, should be like that. The Km variation is too short. At least one order of magnitude should be ranged (0.01-0.1-1.0) Also, in the graphics legends, I disagree when the authors say "urease stability". They are testing the activity, not stability. Also, the optimum temperature is really that high? It is really surprising. And besides new beans, what is the big difference between the present manuscript and the previous published work? http://www.sjpub.org/sjbch/Adewoyin%20et%20al.pdf In case the editorial office consider the manuscript for publication, I strongly suggest the authors to explain or do the following: - the Km must have more points of substrate concentration; - the optimal temperature assay must be correctly done or the sentences rephrased. - I still believe the figures could be improved. Thanks	Corrected. Line 37& 38 Corrected line 44 Corrected line 212-231 Corrected line 98 The range of substrate concentration depends on the enzyme activity. Increasing the concentration in this work may not be possible due to: (1) urease activities vary in each of the enzyme and there may not be activity in all the samples at lower/higher concentration. (2) Also, in this work, we did not use purified enzyme which may have better sensitivity. Urease can operate at high temperature; works from several authors confirmed that. In this work, we have accounted for the kinetics of urease as influenced by germination, besides new bean. However, in research and publication, we cannot wait until we have big difference from what others have done. So far in discovery, it has been a little here a little there.