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Journal Name:	British Microbiology Research Journal
Manuscript Number:	Ms_BMRJ_20766
Title of the Manuscript:	CHARACTERISATION OF A PURIFIED LOW MOLECULAR WEIGHT AND THERMO-ALKALINE TOLERANT XYLANASE PRODUCED BY <i>Aspergillus brasiliensis</i> IN SUBMEGED FERMENTATION (SmF)
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>)



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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	The manuscript represents a very valuable study on characterisation of enzymatic activities and other characteristics of endo-1,4-β-xylanase isolated from <i>Aspergillus brasiliensis</i> ATCC 16404 strain. The enzyme activity is precisely characterised with respect to several factors such as temperature, pH, metal ions, chelating agents and organic solvents. The presented experimental data represent a valuable and a complex set; however, I have one important notice on the presented data that lies in missing statistical evaluation. As I understand, all the presented data are just mean values without no data variability shown and evaluated. However, the experimental data cannot be presented in such form. Adequate statistical evaluation, i.e., analysis of variance (ANOVA) and a post-hoc test (e.g., LSD 0.05, Tukey, Fisher, Duncan's multiple range test, etc.) has to be carried out to evaluate the data variability and to determine significant differences between the individual samples practically to all presented data, especially the column graphs in Figures 1, 2, 3, 10, 13, 14, 15). Moreover, regarding the data presented in Figs. 8 and 9 on the effect of a broad temperature or pH range on xylanase enzymatic activity, I miss any data on the time period of the presented temperature or pH	



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	treatments after which the enzymatic activity was determined. The data on the incubation period of the enzyme under the given temperature or pH conditions have to be added to the figure legends as well as to the corresponding text. Due to an absence of statistical evaluation of the presented data, I have to recommend a major revision of the manuscript. Otherwise, I have only a few formal comments on the manuscript. A minor linguistic revision of the manuscript should be performed. Remove “the” before the general terms such as “xylanase activity” Abstract, line 9: Use the verb form “catalyzes” instead of “catalyse” in the sentence “Xylanase, also known as endo-1,4-β-xylanase, is a glycosidase that catalyzes the conversion of xylan to xylose...” Abstract, line 35: Use the verb “was found” instead of “was detected” in the sentence “...while Al^{3+} was found to be the toughest inhibitor.”	
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<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	The manuscript provides a complex study on the investigation of factors affecting enzymatic activity of xalanase isolated from <i>Aspergillus brasiliensis</i>; however, I miss adequate statistical evaluation of the presented data, i.e., not only mean values and SD or SE, but also ANOVA and post-hoc tests of statistical significance to determine significant differences between the different data sets compared. Otherwise, I have only a few formal comments on the manuscript. Relevant statistical evaluation of the presented data (ANOVA analysis leading to a determination of significant differences).	

Reviewer Details:

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