



SDI Review Form 1.6

Journal Name:	Journal of Advances in Microbiology
Manuscript Number:	Ms_JAMB_60817
Title of the Manuscript:	Production and Characterization Of Polyhydroxyalkanoates From Lactic Acid Bacteria Isolated From Dairy Wastewater, Fermented Cow Milk and 'Ogi'
Type of the Article	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/journal/10/editorial-policy>)



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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	<p>The authors utilized Lactic Acid Bacteria Isolated from Dairy Wastewater, Fermented Cow Milk and 'Ogi' for production of Polyhydroxyalkanoates. They studied different parameters such as different carbon, nitrogen sources, incubation temperature, pH and agitation speed then, the extracted PHA was characterized by FTIR and SEM. The experiments and method applied are suitable for this study but :-</p> <ol style="list-style-type: none"> 1- The authors should do more characterization such as XRD. And HNMR to support their study. (optional) 2- It is supposed to apply the extracted Polyhydroxyalkanoates in a convenient application to complete this search such as medicine, agriculture, tissue engineering, especially polyhydroxyalkanoates are a promising class of new emerging biopolymers. <p>However, the manuscript needs major revision before considering for publication. I listed my major concerning about the manuscript.</p> <ul style="list-style-type: none"> • What do you mean by "Ogi" in the manuscript • In abstract [had highest (the highest) PHA yield from liquid medium was (were) used]. show instead of shows]. The symbol of degree of temperature [35°C and 40°C as mentioned in all manuscript] The numbers write one time (words or numbers) not both, seven (7). • In material and methods [waste water was analyse analyzed, Isolates that retained the dye (blue-black) contains contain, gramme gram, • In results and discussion [the highest instead of highest, and the least in all manuscript.] [Least the least PHA weight (0.10g) and higher cell dry weight (2.16g) was were recorded for isolate,] [Since PHA production by bacterial strains depend depends on the carbon source used] [The amount of dry cell weight produced from the two isolates using the different carbon sources are is shown in Figure 2 <p>Under figure 6</p>	



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	<p>[For both isolates, the highest and lowest PHA yield, dry cell weight and PHA weight was were recorded at pH 6 and pH 9 respectively]</p> <p>[The highest weight of PHA for isolates CW10 (3.3g/L) and WWD3 (2.7g/L) and the least weight of 0.8g/L and 0.4g/L was were recorded]</p> <ul style="list-style-type: none"> • Figure 10 and 11: FTIR Spectrum of produced PHA from isolate L. plantarum CW10 should provided wave length [cm⁻¹] on the horizontal axis. • The Resolution of FTIR should be provided on high quality. • Please discuss plausible reasoning for optimum production of Polyhydroxyalkanoates at these conditions or due to what, referring to more references. • The number of references is very limited (25 references only) although there are many research papers and reviews published in this issue. • In material and methods, the authors mentioned to carry out molecular characterization of the isolates involving DNA extraction, PCR amplification, gene sequencing and blasting. It is not found in the results and discussion. • Where is the list of abbreviation in the end of manuscript • Reference 21 needs page No. 	
Minor REVISION comments	The manuscript needs major revision before considering for publication	
Optional/General comments	<ul style="list-style-type: none"> • The conclusion is very brief and should clarify more details especially the promising application of Polyhydroxyalkanoates in the field of medicine, agriculture or any other field. 	

PART 2:

	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)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

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