

## Review Form 1.6

Journal Name:	Journal of Advances in Biology & Biotechnology
Manuscript Number:	Ms_ JABB_88039
Title of the Manuscript:	Optimization of DNA Extraction Protocol from Banana Fruits
Type of the 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:

(<https://www.journalarrb.com/index.php/ARRB/editorial-policy> )

### **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)
<b><u>Compulsory</u></b> REVISION comments	DNA extraction is highly individual between plants, that is the whole purpose of optimizing it for banana fruits. Last sentence of Abstract, Introduction and Conclusion should be revised to reflect this. Description of the methods are not technically sound. The method used is not a precipitation method, since the DNA is bound to a QIAamp mini column before washing and eluting. The sentence "to separate the DNA precipitate from the solution" is incorrect. It should rather read " to bind the DNA to the silica column". Temperature range of isopropanol above 85°C is impossible since it's boiling point is 82.5°C. Also by the time the solvent is added to the 1 ml sample in the tube the temperature will immediately change. An incubation step at the temperature range should rather be investigated. No mention to analytical replicates were made. No mention is made of which NaCl concentration was used during testing the effect of temperature. References 1 and 2 are not complete. Nonsense authors in Reference list (no 4 and 5), author is required to properly site the manuals utilised from supplier websites.	The conclusion has been revised accordingly.  These temperatures were achieved using an incubators and extreme low and high temperatures were achieved using fridge/freezer and oven respectively while monitoring using a thermometer.  Generally, the methodology section has been revised accordingly
<b><u>Minor</u></b> REVISION comments		
<b><u>Optional/General</u></b> comments		

### **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?	(If yes, Kindly please write down the ethical issues here in details)	