



SDI Review Form 1.6

PART 1:

Journal Name:	<u>British Microbiology Research Journal</u>
Manuscript Number:	2013_BMRJ_4860
Title of the Manuscript:	Characterization of Lactic acid bacteria from raw milk samples of Cow, Goat, Sheep, Camel and Buffalo with special elucidation to lactic acid production
Type of the Article	Research Paper

General guideline for Peer Review process is available in this link:

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

- This form has total 7 parts. Kindly note that you should use all the parts of this review form.



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PART 2: 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)
<u>Compulsory</u> REVISION comments	• The characterization of Lactic acid bacteria should comprise the study of more biochemical and technological aspects. • The lactic acid production is not "specially elucidated" by performing a single HPLC analysis. • Molecular characterisation is not complete by using 16S PCR and even more for 5 out of the 13 strains isolated. • Only 13 strains have been isolated and studied. This number is extremely low for a microbiological study. • The number of strains is too low to make conclusions. We can only observe a trend and not generalise. • There are methods used that are not included in the Material and Methods part, such as the HPLC analysis, Fermentation type, Sugar fermentation, Casein hydrolysis, nitrate reduction, growth at pH 4.2, 16S PCR. • Although the enumeration is one of the paper's aims, it is not reported in the Results section. • It is not reported if repetitions have been performed for the experiments. There is no statistical analysis e.g. for the HPLC experiment. • In the section of the Results and Discussion there is no reference or comparison with the	HPLC was performed 3-4 times. Microbes with high lactic acid production were forwarded to molecular characterization. The methods like sugar fermentation, nitrate reduction etc is of daily practice and need not to be mentioned in a research paper which will increase the size of manuscript and are of no use according to me. While as HPLC and molecular characterization part is included in manuscript after reviewer's kind suggestions.



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	literature data.	
<u>Minor</u> REVISION comments	• The temperature used for the bacteria isolation (38°C) is selective mostly for thermophilic. For the isolation of mesophilic a lower incubation temperature (22°C) should be also used. • The NaCl concentration used to observe the growth (5%) is low if we want to exclude the possibility of Enterococci. There should be a reference for the use of this NaCl concentration. • There should be a reference for the measurement of the acidity (pH droppage after 24 h in MRS). The official method for the acidity production should be reported.	Temperature range from 32 to 45°C was used for these experiments. Hence the reviewer's suggestions will be used for future experiments
<u>Optional/General</u> comments	• The English quality needs to be improved. • There are only few References in the Introduction part. • The References correspond to the years 1961-1994 and there is only one Reference corresponding to 2006. References should be updated.	