



## SDI FINAL EVALUATION FORM 1.1

### PART 1:

Journal Name:	<a href="#">Asian Journal of Research in Biochemistry</a>
Manuscript Number:	Ms_AJRB_43243
Title of the Manuscript:	High-level expression and purification of DNA and DNase free Taq DNA polymerase
Type of Article:	Original Research Article

### PART 2:

FINAL EVALUATOR'S comments on revised paper (if any)	Authors' response to final evaluator's comments
<p>A revised version of the manuscript addresses the most points raised during the review process. However, I do think that the author(s) need(s) to work a little more on the manuscript. The pLoxGentrc vector encoding Taq DNA polymerase was used to produce the recombinant enzyme. However, a construction of this plasmid has not been described in the Methods section. It is an important part of work and can not be omitted.</p> <p>Protein gel staining methods were also omitted in the methodology section.</p> <p>Information on clinical samples used in the study could be provided in section 2.7 and not at the end of the manuscript.</p> <p>Fig. 5a DNA size marker is not marked.</p> <p>I would like to emphasize that the scientific name of the species is always written in italics. Therefore it should be <i>Tubercle bacilli</i> or <i>Tubercle bacillus</i> (lane 120) instead of tubercle bacilli.</p> <p>Symbols for genes are also italicized, so <i>rpoB</i> gene (lanes 118, 284), <i>chuA</i> gene (lanes 119, 284) instead of rpoB gene, chuA gene.</p> <p>I think that one name of the bacterium <i>Tubercle bacillus</i> or <i>M. tuberculosis</i> (lane 284) should be used throughout the manuscript.</p> <p><b>The manuscript still requires editing of English language and style.</b> Some examples:  - lanes 344 and 345: in my opinion it should be: samples were obtained from.../sample was obtained from... instead of samples were got from.../sample is got from...;  - lane 99: it should be DNase activity instead of DNAse activity;  - lanes 217,221,226, 319: it should be with specific primers instead of with specific primer;  - lane 325: it should be with all types of samples instead of with all types of sample.  - Fig. 5b: Unit of taq enzyme?  - I am afraid that Taq DNA polymerase can not be used as a template (lanes 218, 222).  - Lane 124-125: text reads: "The recombinant plasmid containing Taq DNA polymerase gene was confirmed by PCR with gene specific primers ... " In my opinion, the presence of Taq DNA polymerase gene within the recombinant vector/plasmid was confirmed by PCR and not the recombinant plasmid.</p>	<p><b>Thank you for your valuable feedback.</b></p> <ol style="list-style-type: none"> <li>1. Our manuscript focuses mainly on "High level expression and purification of <i>Taq</i> DNA polymerase" and hence we omitted cloning part. Including the cloning part may dilute the essence of our paper.</li> <li>2. The protein gel staining methods reference has been included and highlighted.</li> <li>3. The information from where the samples were obtained was removed from the manuscript after discussing with the Editor.</li> <li>4. In Fig. 5a, the ladder size is not marked because it was not separated properly. In case of longer run the accuracy will reduce due to diffusion of PCR band. Hence crispness of band intensity will not be able to capture properly in ImageJ software.</li> <li>5. In the entire text, <i>Mycobacterium tuberculosis</i> is used to bring the uniformity and to avoid the confusion of usage of tubercle bacilli.</li> <li>6. The gene names like <i>rpoB</i>, <i>chuA</i> and <i>Esat6</i> has been italicised as suggested and highlighted.</li> <li>7. In the entire text, <i>Mycobacterium tuberculosis</i> is used to bring the uniformity and to avoid the confusion of usage of tubercle bacilli.</li> <li>8. The manuscript has been edited in little in the methodology section and highlighted. Further the suggested English editing has been carried out and highlighted.</li> <li>9. Lanes 344 and 345 has been removed by the Editor after our discussion with them.</li> <li>10. Fig. 5b: It refers to the unit of commercial Taq enzyme or unit of standard Taq enzyme used to make the standard curve.</li> </ol>