



SDI Review Form 1.6

Journal Name:	International Research Journal of Pure and Applied Chemistry
Manuscript Number:	Ms_IRJPAC_27100
Title of the Manuscript:	Synthesis, Characterization and Antibacterial studies of some Isoniazid-derived Schiff bases
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.

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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	1. Authors should provide appropriate references for the synthesis of Schiff bases because the procedure for their synthesis is well known in literature. 2. Authors should describe what solvent system was used to monitor the progress of reaction during the synthesis of Schiff bases. 3. Authors should add compounds numbers and substituents to the Scheme 1. 4. Page 4. Lines 87-92. Authors should remove these sentences. All substituents should be present on Scheme 1. 5. Table 2 should be removed from the main manuscript and moved to the Supplementary Materials. This table is not necessary in the main manuscript. 6. Authors claimed that two of synthesized compounds are new. I have checked all compounds in Chemical Abstract database and noticed that all compounds presented in the manuscript are already known. Some of them had many references or even commercial sources. Here is the list of compounds with CAS numbers, number of references and commercial sources: Compound 1: CAS Registry Number 13059-77-3; No of references: 98; No of commercial sources: 4 Compound 2: CAS Registry Number 6342-48-9; No of references: 13 Compound 3: CAS Registry Number 303066-20-8; No of references: 5; No of commercial sources: 4 Compound 4: CAS Registry Number 893-42-5; No of references: 94; No of commercial sources: 2 Compound 5: CAS Registry Number 71579-89-0; No of references: 5 Compound 6: CAS Registry Number 943409-52-7; No of references: 5; No of commercial sources: 4 Compound 7: CAS Registry Number 15017-32-0; No of references:	1. Two more references [17, 18] have been added for synthesis of Schiff bases 2. The solvent system has been indicated in the manuscript. 3. Done 4. Done 5. Table 2 has been moved to the <i>Supplementary Material</i> section. The atoms have been labelled which necessary for the write-up. 6. We could not find the CAS Registry number for compound 6. However compound 6 do exist (CSID:24761605, http://www.chemspider.com/Chemical-Structure/24761605.html (accessed 15:59, Jun 12, 2016)). In addition this compound does not have any documented spectra. The CAS registry numbers have been included. 7. The values in the range 0 – 6 mm for the zone of inhibition were not recorded since they were insignificant. 8. Our values were comparable to isoniazid, the parent compound from which the other compounds were derived. 9. MIC values were quoted for the compounds which showed some antibacterial activity.



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	65; No of commercial sources: 2 Compound 8: CAS Registry Number 15017-31-9; No of references: 12 Compound 9: CAS Registry Number 13025-99-5; No of references: 36; No of commercial sources: 1 If the author synthesized already known compounds they should provide appropriate references or at least CAS number. It must be corrected. 7. Authors should provide all values of zone inhibition growth for all synthesized compounds. 8. Synthesized compounds display very weak antibacterial activity. Whereas generally Schiff bases are good antimicrobial agents. Authors should try to explain why in their cases activity was so weak. 9. Please provide MIC values for all synthesized compounds. 10. Please add ATCC number of bacterial strains and fungi in the antimicrobial section. 11. Isoniazide mentioned on page 13 lines 200-202. These sentences must be removed. 12. Table 4 and 5 must be removed. These tables repeat the same data as presented in 2.3.1 Characterization Data of the Schiff Bases.	10. See text for some of the bacterial strains. 11. It is important to compare their antibacterial activities with isoniazid. 12. Tables 4 and 5 have been removed as recommended.
<u>Minor</u> REVISION comments	1. Some references throughout the text should be adjusted to the journal pattern. 2. In addition to the above there are a number of necessary corrections required to this manuscript - these relate to punctuation errors and editing oversights. 3. All abbreviations used in the manuscript should be explained.	1. The references have been re-adjusted. 2. The errors have been reviewed 3. done
<u>Optional/General</u> comments	1. English should be checked by native speaker. Manuscript can be accepted for publication after fulfilling all required corrections mentioned above.	1. The language has been checked