

Review Form 3

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_130203
Title of the Manuscript:	Stability Evaluation of Acetylsalicylic Acid in Commercial Aspirin Tablets Under Different Storage Conditions
Type of the Article	Original Research Article

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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 guidelines for the Peer Review process, reviewers are requested to visit this link:

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PART 1: Comments

	Reviewer’s comment	Author’s Feedback <i>(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.	Today, aspirin is widely used as an analgesic, and pharmacists dispense it without needing a medical prescription. However, aspirin undergoes degradation in storage, which can be detected physically due to the liberation of acetic acid odor. On the other hand, the other degradation product (Salicylic acid) is harmful to the stomach membrane and can cause stomach ulcers.	The authors express their gratitude for the thorough review of the manuscript and the valuable suggestions and comments provided. This constructive feedback has significantly contributed to enhancing the quality and clarity of the work.
Is the title of the article suitable? (If not please suggest an alternative title)	yes	The title of the manuscript remains unchanged as suggested.

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Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.	Yes	The abstract of the manuscript remains unchanged as suggested.
Is the manuscript scientifically, correct? Please write here.	<div>1- The analytical method (acid-base titration) is inefficient for stability study since it follows the parent compound determination and cannot detect the degradation products. Usually, we use the stability-indicating HPLC method to follow the limit of degradation products. One of the references mentioned in this research ( Ref.No.21) revealed the use of the HPLC technique.</div> <div>2- The storage conditions of Aspirin tablets are not at a fixed controlled technique like stability chambers.</div> <div>3- There is no detailed information about the time of exposure the dug to the heat factor.</div> <div>4- The equation used for drug percent calculation should be related to the authentic standard instead of the controlled sample.</div>	<div>Below, we address each of the points raised:</div> <div><div>1. <b>Analytical method</b></div><div>We fully agree that HPLC is a critical and indispensable analytical technique for stability studies, particularly for detecting degradation products. However, as stated in the manuscript, the aim of this study was to employ traditional pharmacopeial methods, such as acid-base titration, which are mandated for quality control of acetylsalicylic acid (ASA) in compliance with pharmacopeial standards. In this study, we utilized slightly modified pharmacopeial titration assays to quantitatively monitor ASA in Aspirin tablets, providing valuable insights into its stability under real-life conditions.</div></div> <div><div>2. <b>Storage conditions</b></div><div>The storage conditions in this study were intentionally designed to replicate real-life scenarios, reflecting how patients typically store their medications at home during a one-month treatment period. These conditions differ from controlled environments, such as stability chambers, to better understand the impact of domestic storage practices on ASA stability.</div></div> <div><div>3. <b>Exposure time to heat</b></div><div>The manuscript has been updated to include additional details about the duration of exposure to all observed parameters, addressing this concern. The changes have been made in Material and method section, Samples and storage conditions subsection.</div></div> <div><div>4. <b>Equation for drug percentage calculation</b></div><div>The recovery factor used in this study is based on a comparison with declared standard values. Additionally, the calculation was expanded to include deviations from the controlled sample to identify differences in the quantitative content of ASA stored under recommended conditions versus those stored in patient-adapted conditions. This approach aligns with the study's objective to evaluate storage conditions relevant to real-life usage.</div></div> <div>We appreciate reviewer's insightful comments, which have contributed to the further refinement of our manuscript.</div>
Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.	yes	Several more recent references have been added as suggested by two other reviewers.
Is the language/English quality of the article suitable for scholarly communications?	suitable	--
Optional/General 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)	The authors declare that there are no ethical issues in the manuscript. Responses to the reviewer's specific comments have been provided in the sections above. All necessary corrections and revisions have been made and are highlighted in yellow in the final version of the manuscript.