

Review Form 1.6

Journal Name:	Journal of Pharmaceutical Research International
Manuscript Number:	Ms_JPRI_74299
Title of the Manuscript:	Formulation and evaluation of Ibuprofen Fast Dissolving Tablets employing starch malonate (modifies starch) as a superdisintegrant.
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. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<http://peerreviewcentral.com/page/manuscript-withdrawal-policy>)

Review Form 1.6

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)
<p>Compulsory REVISION comments</p>	<ul style="list-style-type: none"> ➤ The title should be rewritten, i.e., modifies starch; should be as a modified starch in bracket part and the super disintegrant are two words. ➤ In the whole document, the superdisintegrant word was used as a single word, so give space between them. ➤ In the whole document, the references numbers were kept after the pull stop; that should be before the full stop of every sentence and start with the new word, not the number. ➤ In the introduction section, conventional oral solid dosage forms = solid dosage forms ➤ Preparation of a starch malonate ➤ starch dissolved = starch were dissolved ➤ This solution then conditioned = This solution was then conditioned ➤ gets = got ➤ (DSC) section ➤ aluminium = aluminium ➤ range 30 = range of 30 ➤ Procedure: ➤ camber = chamber ➤ Preparation of fast dissolving tablets of ibuprofen ➤ <u>accurately = an accurately</u> ➤ eight stationrotatory press = an eight-station rotary press ➤ Karnawathi Machinerics = Karnavati Machinery ➤ Evaluation of Aceclofenac fast dissolving tablets: = Ibuprofen ➤ Due modifications are required in the article as per the above suggestions. <p>RESULTS AND DISCUSSION</p> <ul style="list-style-type: none"> ➤ physical and micromeritics properties in table 2 ➤ The physical and micromeritics results are given directly in the results section; the authors need to be describing the details of each study in the methodology section like solubility, viscosity and bulk density etc. ➤ Drug – Excipient compatibility studies ➤ In this section, the author reported as “The ester peak (1736.63 cm⁻¹) found only in starch malonate FTIR spectrum and is absent in potato FTIR spectrum”. However, in the FTIR graphs, the exact value is absent, and also, the ester peaks are there in both the graphs (fig 1 & 2) at 1720 cm⁻¹; so the author's conclusion is wrong. ➤ Figures 1 & 2 and 6 & 7 are the same, but both the explanation of the case was different; the authors need to be confirmed and either merge the image or delete one. ➤ The paragraph is started as →Fig. 4 and 5 shows the scanning electron microscopic image <u>and ended with</u> →Starch malonate was found to have swelling index 83.95%. There is no relation between them. ➤ The author's <u>blindly added the drug content values</u> in table 4; it should be within 100% and some deviations as per IP/USP etc. ➤ The author's also blindly added the <u>standard deviation values</u> in all the results; there is no clarity. 	

Review Form 1.6

	<ul style="list-style-type: none">➤ As per the explanation and results in table 4, the author's selected the F2 formulation as an optimized formulation; on what basis it shows the less disintegration, wetting time and high water absorption ratio; relevant scientific information is required with proper reason in this part of the article.➤ F2 and F4 results are almost identical in the dissolution sections, so relevant scientific information is required.➤ It can't make believable those results came with the one Starch malonate and its one concentration, there because CCS and CP have already been proven. This is one of the bases of this research article.➤ Statistical analysis, i.e. an analysis of variance (ANOVA) study procedure required in methodology and not clear in the results and also almost identical in the tables, so relevant scientific information is required.➤ In the Table 11 ANOVA of Dissolution efficiency of Aceclofenac is mentioned; but the present research done on the Ibuprofen drug. <p>Effect of different superdisintegrant on disintegration time</p> <ul style="list-style-type: none">➤ In this part, the author's mentioned a combination of disintegrants used to decrease the disintegration time and rapid drug release, but the optimised formulation F2 is single usage of Starch malonate. Correct justification required.	
--	---	--

Review Form 1.6

<p>Minor REVISION comments</p>	<ul style="list-style-type: none">➤ In the abstract, the sixth line is there as (Wetting time and water absorption ratio was also performed.) it should be as (Wetting time and water absorption ratio were also performed.),➤ And the middle of the sentences few capital words observed that should be small letters. (ex: Croscarmellose sodium and Crospovidone, Hardness and Friability).➤ Do in all cases in the whole document.➤ In the abstract results section, the line is there as (all the results are in acceptable limit) it should be (all the results are within acceptable limits) and showed = shown,➤ In the introduction section,➤ They are named as “fast dissolving systems” as they characterized by its property to disintegrate within seconds as soon it comes in contact with saliva which results in fast release of drugs.➤ They are named “fast dissolving systems” as they are characterized by their property to disintegrate within seconds as soon it comes in contact with saliva, which results in the fast release of drugs.➤ Like that <u>few grammar mistakes</u> are there in the whole document; so the author should check it and correct it.➤ <u>Add few more references.</u>➤ Due modifications are required in the article as per the above suggestions.	
<p>Optional/General comments</p>	<ul style="list-style-type: none">➤ In the introduction section, the following sentences should be Rephrase or rewrite if necessary;➤ Oral route is the most common, stable, economical route as compared to other dosage forms preferable by major population. (Rephrase sentence like)➤ The oral route is the most common, stable, economical route compared to other dosage forms preferred by the major population.➤ <u>And</u>➤ Literature study has shown that conventional oral sold dosage forms (tablets or capsules) has showed the problem of swallowing, dysphasia (nausea), chocking and its difficult to administer it to mentally ill, bed-ridden and unconscious patients. (Rephrase sentence like)➤ Literature study has shown that conventional oral sold dosage forms (tablets or capsules) have shown the problem of swallowing, dysphasia (nausea), choking, and its difficult to administer to mentally ill, bed-ridden, and unconscious patients.	

Review Form 1.6

PART 2:

	Reviewer's comment	Author's comment <i>(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)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

As per the guideline of editorial office we have followed VANCOUVER reference style for our paper.

Kindly see the following link:

<http://sciencedomain.org/archives/20>

Reviewer Details:

Name:	<i>Kumara Swamy Samanthula</i>
Department, University & Country	<i>Jawaharlal Nehru Technological University Hyderabad, India</i>