



SDI Review Form 1.6

Journal Name:	European Journal of Medicinal Plants
Manuscript Number:	Ms_EJMP_48409
Title of the Manuscript:	Nutritional and Phytochemical Characteristics of CaesalpinioideaeSeeds
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://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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	Title must be: "Chemical composition of Caesalpinioideae seeds" Otherwise the paper is premature as work done.	Corrected. The title has been updated according to the Reviewer's suggestion.
Minor REVISION comments	Major revision in title and writing Specific points; 1.Total polyphenol content of kernel 1820 ± 32 , mg/kg = $1.8\text{g}/1000\text{g} = 0.18\%$ Total polyphenol content seed coat= 28200 ± 540 mg/1000gms or $28\text{g}/1000\text{g} = 2.8\%$ So $2.8/0.18 = 15.5$ times. Give reason for that. Brown colour chemistry must be given. Assay the antioxidant, antibacterial, antifungal and anticancer activities. 2.You claim it has Cd and Pb. Then even it has Mg, Co, Fe, it is poor nutritional. 3. You have to purify phytochemicals further by TLC and HPLC, then only you can do FT-IR. 4. Protein content in kernel?	1. (a) Seed coat (seed testa) pigmentation is the result of presence of phenolic compounds. In this case, in good agreement with [Nozzolillo, C., & Ricciardi, L. (1992). Proanthocyanidin content of broad bean seeds: relationship of seed coat color. In Plant Polyphenols (pp. 911-914). Springer, Boston, MA], the brown colour was clearly attributable to proanthocyanidins (tannins). Their presence would account for the significantly higher TPC concentrations in the seed coat than in the seed kernel (15.5 times higher, as noted by the Reviewer). A clarification has been added to the manuscript. (b) We agree with the Reviewer that the antibacterial, antifungal and anticancer activities of these seeds deserve being studied. Nonetheless, we feel that it would be beyond the scope of this article. A sentence pointing out this has been included in the revised manuscript at the end of the conclusions. 2. Pb was only present at very low concentrations in two of the seeds, and no reference to Cd has been made in the text. The presence of HMs was checked only to assess if pollution in the area could lead to human health hazards associated with the consumption of these seeds, and we concluded that it was not the case, so the claims on the nutritional properties of the seeds would be valid. The text in the abstract, which could be misleading, has been slightly re-written. 3. The approach suggested by the Reviewer is not the usual one in the literature. Please note that we have used the same procedure as that reported, for instance, in 10.1016/j.foodchem.2017.04.049 , 10.3390/molecules24010083 , 10.3732/ajb.1200646 , etc. 4. The protein content in kernel has been added to Table 1.
Optional/General comments	The paper is premature work unless the title has changed "Nutritional and phytochemical characteristics of Caesalpinioideae seeds" is very early study and need more work to publish. It is not well thought work. However, the paper could be accepted by heading "Chemical composition of Caesalpinioideae seeds"	The title has been changed, as requested.

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?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	No