

Review Form 1.6

Journal Name:	European Journal of Medicinal Plants
Manuscript Number:	Ms_EJMP_78527
Title of the Manuscript:	Microwave assisted extraction of berberine and preparation of berberine hydrochloride from <i>Berberis aristata</i> variety of Nepal, and quantification using RP-HPLC and HPTLC methods.
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:

(<https://www.journalejmp.com/index.php/EJMP/editorial-policy>)

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	<p>General comments:</p> <ol style="list-style-type: none">1. scientific names in italic please;2. Introduction: you present a collection of molecules present in your plant, but I think it important to see the structures and pKa values. The effect of different solvents on your extraction is also welcome.3. Extraction of berberine and preparation of berberine hydrochloride: you optimized your extraction? please, be more descriptive. Does the pH play any role? who is absorbing in 265 and 350 nm ?4. The pK or different pK values and structure of berberine are welcome.5. Plant material: who did the ethnobotanical classification? Have you a voucher or a sample was registered in any Herbarium?6. Fig 2. can you show a chromatogram with standard + extract (an overlay)? I have serious doubts if you really monitoring your wished molecule. You have only polarity and UV absorption to consider your peak. An extract is very complex. It is hard to swallow this analysis.7. Figure 4 is really necessary ?8. Citations more recent are welcome. Only one work from 2021 and one from 2020.	
Minor REVISION comments		
Optional/General comments		

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>	

Reviewer Details:

Name:	<i>Karen Cordovil</i>
Department, University & Country	<i>Fundação Oswaldo Cruz, Brazil</i>