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REVIEWER'S REPORT

Manuscript No.: IJAR-57696

Title: Phytochemical screening of mung bean (*Vigna radiata* (L.) Wilczek) genotypes for dual-purpose bioactive and antioxidant traits in Burkina Faso

Recommendation:

- Accept as it is
- Accept after minor revision.....**
- Accept after major revision
- Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		x		
Techn. Quality		x		
Clarity		x		
Significance			x	

Reviewer's ID: JPR-171

Detailed Reviewer's Report

This study provides valuable data on phytochemical variation among mung bean genotypes in Burkina Faso, highlighting leaves as a rich source of antioxidants. The work is relevant and methodologically sound. However, a few minor issues need attention. First, the extraction protocol (maceration for 24 hours) is not described in terms of temperature control or light protection – please clarify. Second, Table 2 shows FRAP values with no significant differences ($p=0.152$), yet the table includes letter superscripts implying differences – this is misleading; remove letters for non-significant parameters. Third, the conclusion recommends evaluating trait stability under water stress, but the study did not include stress treatments – this is a suggestion for future research, not a conclusion. Rephrase accordingly. Fourth, correct typographical errors (e.g., “leaveseed” in keywords, “conten” in Table 4). These revisions will improve clarity without requiring new experiments.