



REVIEWER'S REPORT

Manuscript No.: IJAR-58172

Title: SCREENING OF SYMBIOTIC *ENTEROBACTERIACEAE* SPECIES FROM THE 1 GUT OF *Macrotermes subhyalinus* AND *Macrotermes bellicosus* TERMITES .

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision

Do not accept (*Reasons below*)

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

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

- 1. *Macrotermes subhyalinus* is a widespread species of fungus-growing termite found across sub-Saharan Africa and parts of Oman. As ecosystem engineers, they construct massive, complex earthen mounds and cultivate *Termitomyces* fungi for food.**
- 2. *Macrotermes bellicosus* is a species of fungus-growing termite found in sub-Saharan Africa . Renowned as the largest known termite species, its queens can reach up to 4.2 inches (110 mm) in length . As critical ecosystem engineers , they build massive earthen mounds and cultivate specialized fungus for food.**
- 3. Enterobacteriaceae is a large, diverse family of Gram-negative bacteria commonly known as "enteric bacteria." While many are harmless and live naturally in the human and animal gut, the family also includes major pathogens like *E. coli*, *Salmonella*, and *Shigella*, which cause food poisoning, urinary tract infections, and other severe diseases.**
- 4. The gut microbiota is the vast, complex community of trillions of microorganisms—including bacteria, viruses, fungi, and archaea—that live in your digestive tract. It acts as a miniature, unique**

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ecosystem that is critical for digestion, metabolism, and overall immune health.

5. Symbiosis is a close, long-term biological interaction between two or more different species . It encompasses various relationships where organisms live together , ranging from mutually beneficial arrangements to those where one species benefits at the expense of another.
6. The API 20E is a standardized, miniaturized biochemical testing system used in clinical microbiology to rapidly identify *Enterobacteriaceae* and other Gram-negative bacteria. It features 20 micro-tubes containing dehydrated substrates, enabling simultaneous testing of metabolic activities like carbohydrate fermentation and amino acid breakdown.
7. Symbiosis is a close, long-term biological interaction between two different species. It acts as an evolutionary driving force, falling into three primary categories depending on whether the partners benefit, are harmed, or remain unaffected: Mutualism, Commensalism, and Parasitism.
8. Key words are excellent.
9. Abstract and result parts are awesome. Tables and graphs are excellent.
10. Significant point with meaningful sentence.
11. Summary points only can be added.
12. References should be with alphabetical order.
13. After those changes good to publish in your journal.