

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 76122

Title: The potential role of *Limosilactobacillus fermentum* as a probiotic with anti-diabetic properties: A review

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05309430

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2022-03-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-03 01:48

Reviewer performed review: 2022-03-14 08:32

Review time: 11 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input checked="" type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This paper reviews the effects of probiotics on intestinal microbiota, intestinal wall permeability, inflammatory mediators, antioxidant system, and ultimately glucose metabolism, thus playing a role in the adjuvant treatment of diabetes mellitus (type 2). The characteristics of several probiotics on the above effects are further listed in this paper. The article is helpful for readers to understand relevant knowledge. Although the article cites some recent literature, the page numbers are not complete, please check them carefully for readers to verify.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05200538

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: Romania

Author's Country/Territory: Brazil

Manuscript submission date: 2022-03-02

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-03-15 09:14

Reviewer performed review: 2022-03-20 18:18

Review time: 5 Days and 9 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This is an interesting and well-written review on the potential role of *Limosilactobacillus fermentum* as a probiotic with anti-diabetic properties. The authors largely documented available data on this subject and the implication of gut microbiota in diabetes. Since all studies, except one, are experimental studies on animals, the authors should more clearly acknowledge that data on various biomarkers which are improved following administration of *L. fermentum* come from animal studies and therefore available data suggest a POTENTIAL role in diabetes management. In line with this observation, article title should also reflect that available data suggest a potential role, not yet definitely confirmed by human studies.