

PEER-REVIEW REPORT

Name of journal: *World Journal of Biological Chemistry*

Manuscript NO: 84265

Title: Comparison of the conventional tube and erythrocyte-magnetized technology in titration of red blood cell alloantibodies

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06100426

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2023-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-20 01:48

Reviewer performed review: 2023-04-01 12:07

Review time: 12 Days and 10 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☒ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No
Peer-reviewer statements	Peer-Review: ☒ Anonymous ☐ Onymous
	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

In recent years, Colliers automatic blood grouping system has been gradually applied in clinical practice using international advanced technique: EMT; this technology is based on the magnetization of red blood cells and realizes the rapid sedimentation of red blood cells under the attraction of magnetic field, thus replacing the serological centrifuge. Previous studies found that EMT can effectively avoid the impact of the centrifugation process on the experimental results, making the experimental results more reliable. In this study, the authors analyzed blood samples from voluntary blood donors in order to explore the application value and effect of the conventional tube and EMT in red blood cell alloantibody titration. The study is overall well designed, and the study is well performed. The results are interesting. The reviewer recommends to accept this manuscript after a minor editing.

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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06100494

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: United States

Author's Country/Territory: China

Manuscript submission date: 2023-03-14

Reviewer chosen by: AI Technique

Reviewer accepted review: 2023-03-20 02:19

Reviewer performed review: 2023-04-01 12:15

Review time: 12 Days and 9 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
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	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

This study is an interesting study of the conventional tube and erythrocyte-magnetized technology in titration of red blood cell alloantibodies. The results are well discussed. I have no specific comments to the authors. Suggest to accept this manuscript.