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REVIEWER'S REPORT

Manuscript No.: IJAR-59322

Title: Study of agglutination reaction of Ag-Ab coated with Sodium alginate beads.

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

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

Reviewer's ID: Dr. Sumathi

Detailed Reviewer's Report

1. **An agglutination reaction is the visible clumping of particles—such as red blood cells, bacteria, or latex beads—when specific antibodies bind to matching surface antigens.**
2. **An agglutination reaction is a biological test where microscopic particles—like bacteria or red blood cells—clump together when they mix with specific antibodies. In science and medicine, this clumping acts like a physical "signal" that tells doctors and researchers exactly what types of germs or proteins are hiding inside a biological sample.**
3. **An Ag-Ab (antigen-antibody) test is a fourth-generation screening tool that looks for both the HIV virus and your body's immune response at the same time to catch infections earlier.**
4. **In medical diagnostics, Ag-Ab stands for Antigen-Antibody. It most commonly refers to a 4th-generation HIV combination test that simultaneously detects the HIV-1 p24 antigen alongside antibodies to both HIV-1 and HIV-2**

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5. **Sodium alginate beads are small gel spheres formed when a sodium alginate solution reacts with calcium ions, causing the polymers to cross-link into a solid hydrogel.**
6. **Antigen-Antibody (Ag-Ab) complexes and individual proteins are frequently immobilized using sodium alginate beads in biomedical applications, such as immunoassays, affinity purification, and targeted drug delivery.**
7. **Antigen-antibody (Ag-Ab) immobilization on sodium alginate beads is a technique used in biotechnology to trap or attach proteins onto a stable, biodegradable hydrogel support. By embedding or coating these active immune proteins onto sodium alginate, scientists can create reusable biosensors, purify specific molecules from blood, or design advanced diagnostic tests.**
8. **Key words must be given.**
9. **Abstract , methodology and observation only given. With this how possible to publish in your journal.**
10. **Must be included result with tables and graphs, Review of literature, Discussion points with references, conclusion, Summary and more references in alphabetical order.**
11. **After those changes only can be published in your journal.**