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REVIEWER'S REPORT

Manuscript No.: IJAR-52396

Title: Anti-Angiogenic Effect of Saccostrea Cucullata (Sisi) In Varying Doses to Anas platyrhynchos domesticus (Itik)

Rating

Clarity

Originality

Significance

Techn. Ouality

Recommendation:

Reviewer Name: Dr. S. K. Nath

Date: 21/06/2025

Reviewer's Comment for Publication:

The research convincingly demonstrates that Saccostrea cucullata extract can inhibit angiogenesis in a dosedependent manner, especially at 50 mg/mL, with strong statistical support. These findings suggest it has potential as a natural anti-angiogenic agent for therapy, notably in cancer treatment where inhibiting blood vessel formation can restrict tumor growth.

Reviewer's Comment / Report

Strengths

- 1. Clear Objective & Relevance: The study addresses a significant biomedical area—natural antiangiogenic compounds for cancer therapy.
- 2. **Methodological Rigor:** Utilizes standardized and well-established assays like CAM to evaluate angiogenesis. Employs statistically sound analysis (ANOVA) to verify dose-dependent effects.
- 3. **Dose-Response Evaluation:** Investigates multiple doses, establishing dose dependency, which is crucial for therapeutic considerations.
- 4. Ethical & Safety Considerations: Proper laboratory safety protocols and disposal procedures were followed.
- 5. **Potential for Therapeutic Development:** Demonstrates that marine-derived compounds can effectively inhibit angiogenesis, opening avenues for drug development.

Weaknesses

- 1. Limited Mechanistic Insight: The study does not delve into the biochemical pathways or molecular mechanisms by which Saccostrea cucullata inhibits angiogenesis.
- 2. Lack of In Vivo Validation: Results are confined to embryo models; further studies in mammalian systems are necessary to confirm therapeutic potential.
- 3. Sample Size & Replication: While the design includes groups of five eggs per dose, larger sample sizes could increase reliability.
- 4. Standardization & Control Details: The positive control used was ascorbic acid, but detailed comparative data weren't provided.
- 5. Extraction Details: The specifics about the extraction process, such as purity, standardization, and active constituents, are not detailed.
- 6. Limited Scope of Toxicity & Side Effects: Potential toxicity or side effects of the extract at higher doses are not addressed.
- 7. Absence of Long-term Effects: The study focuses solely on short-term inhibition in embryo models, not on long-term efficacy or safety.

Date: 21/06/2025

Poor