data shows that bioconversion of orange peel waste produces 68.9% more biogas compared to control in a time span of 30 days. This data conclusively proves that there is commercial possibility of large scale bioprocessing of huge amounts of orange peel waste which accumulates near fruit processing industries to value added product like biomethane. The technology becomes economically feasible considering the cost spent on waste removal, pollution abatement and revenues incurred as part of imports on crude oil.

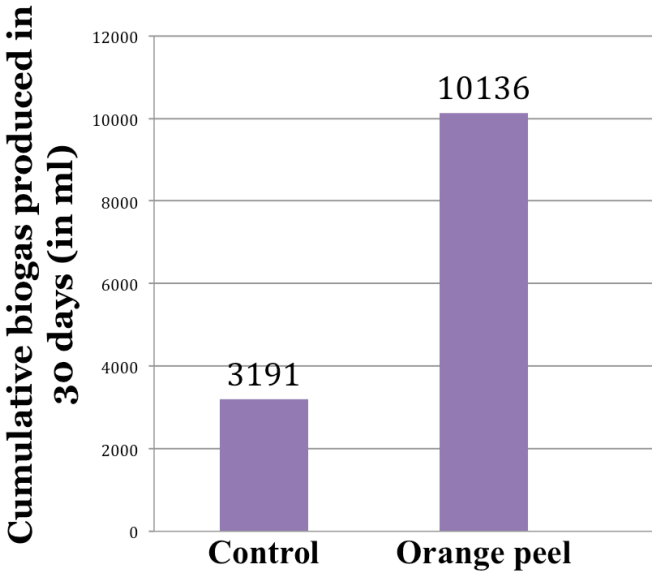

Figure 3: Cumulative biogas production in 30 days

4. Conclusion

The rotten/waste orange can efficiently be converted to Penicillin by employing surface mat culture of *Penicillium* fungus. In addition, biomethanation orange peel wastes is also a technical possibility on an industrial scale.

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Author Profile

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