# Report on Logistic Growth curve

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#### 8 Abstract

#### Introduction

#### 10 Methods

- 11 modified Gompertz model<sup>1</sup>
- <sup>12</sup> Buchanan model<sup>2</sup>

#### Computing tools

## 14 Results

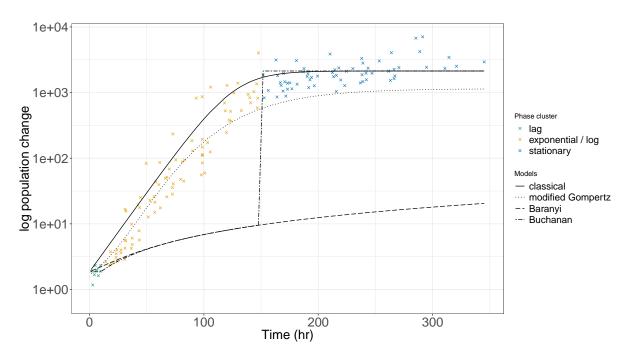


Figure 1: Semi-log graph showing four different models fitting on data of "Population Change" against "Experiment time" with points clustered into three main phases of sigmoid growth curve.

## Discussion

## 16 Conclusion

#### 17 Code and Data Availability

All scripts and data used for this report were publicity available at GitHub.

#### 19 References

- Zwietering, M., De Wit, J., Cuppers, H. & Van't Riet, K. Modeling of bacterial growth with
  shifts in temperature. Appl. Environ. Microbiol. 60, 204–213 (1994).
- Buchanan, R., Golden, M. & Whiting, R. Differentiation of the effects of pH and lactic or
  acetic acid concentration on the kinetics of Listeria monocytogenes inactivation. *Journal of Food Protection* 56, 474–478 (1993).