

The context for computational purposes of cell turbidity focuses on optimization results. It is an adaptation-related process of an input, and the selection of equipment characteristics, mathematical processes, and testing [1]. Furthermore, the optimization in the algorithm is the a problem-solving process aiming that aims to at discovering the most beneficial conditions from a certain point of view, developing-addressing real-world problems and numerical applications to advance the disciplines with draw-on-the-ways mathematicians-and-scientists, and to better understand of these phenomena.

Computation is noun-of-is defined as “to compute”, and refers to a process [2]. The “computer” verb version of the term from-that-verb is a machine to process calculations the-using digits, and the computational behaviour depends the system. The results of the analysis and diagnosis optimization would be prepared for the processing phase for-of machine learning adaptation. This is an interdisciplinary method scope-which refers to artificial intelligence and statistics for a-computer applications. Moreover, researchers can develop algorithms based on expertise, e.g. a model for linear regression analysis [3]. The analysis and diagnosis of linear regression for-each-for-testing and computation can provide solutions with the help of computer simulation. The model of cells is a behaviour, and has been explored and related-to systemized methods to understand [4] the reality.

The focus on *Saccharomyces cerevisiae* turbidity in a-computational modelling is performed in procedural algorithms. However, that-is-not-available-yet; the-the cell turbidity model in the medium and computational efficiency of modelling, estimation method and hopefully-at-using the turbidity data for cell number estimation are not yet available [5]. The correlation between particle, e.g. bacteria and organisms with larger cells, and turbidity, also-are-do-not-also-not-yet-completely understood, such as the McFarlan method using photometry for the turbidity. The principles of spectrometric absorbance are at 600 nm for aqueous solution, but the suspended substance is-happenoccurs, those-which means the absorbance parameter is not suitable.

Computational models utilize other types of particles whose object differs from this research, such as formulating, modelling, adapting, or determining the results of an-analysis and diagnosis. In the first year, research on *Saccharomyces cerevisiae* cell turbidity modelling was applied as a standard curve of turbidity method, named referred-to-as turbidimetry, on cell quantity in the medium of purified water. The statistical proceduress procedures can be used for simulation to-of selected models. By utilizing the-computer simulations, time management can be effective and efficient when facing a complex system [6]. However, its implementation is not only a program execution. That-beyond-to-tThe analysis results and the significance of diagnosis can also be simulated to determine a model's suitability. Simulation is a heuristic method used to solve optimization problems and that-is-accepted-on-rational-thinking [7].

There are no computer programs available for simulating and assessing errors of the model candidates, and computational optimization is a necessity to obtain-generate the model [8]. Based-on-tThe research conducted-for-two-years, to obtain and examine the model of *S cerevisiae* cell turbidity in purified water and liquid medium of cell growth, required two years. Computation in this context is certain analysis and model diagnosis, which must be optimized. Optimization is-called-for-to-performs computational procedures and to-generates test results [9]. A Hybrid-hybrid algorithm allows us -to solve complexity problems, i.e. the process stages presented [10]. Performing experiments of cell models in liquid media bring-into-is-a problem solving system, and that is clear and understood [6]. This paper aims are-to construct the computational structure in studying the turbidity model of homogeneous cell particles of *Saccharomyces cerevisiae* in pure water, as-well-as-finding-and-testing-and-to test a consistent model in liquid nutrients medium.

A model can be seen as the-a point-view to parameterized mathematical equations and a physical point-view to for consistency [11]. This research worked-investigates-on the microbe's discipline. Researchers look the beyond that-a-the role of the model, which is useful in preparation of fermentation process of biofuels; a part of the renewable energy and environmental preservation.

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