

VIRTUAL LABORATORY BASED ON INQUIRY IN CHEMICAL EQUILIBRIUM AS LEARNING INNOVATIONS

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Abstract

This study aims to develop and determine the feasibility of inquiry-based virtual laboratory media on chemical equilibrium. The development model used in the research was R&D which adopted the phase from Borg and Gall. Phase Borg and Gall used until 5, research and information collecting, planning, developing a preliminary form of product, preliminary field testing, and main product revision. The instruments in this study were questionnaires used to obtain input data for products, and quantitative scores as the value of media feasibility. The results of this study are inquiry-based virtual chemistry laboratory media on chemical equilibrium. Ideality presentations from the results of media assessments by chemistry teachers were 82.50%, peer reviewers were 87.50%, and students ratings were 82.50%. Overall the value of the feasibility of this media presentation was 83% with a very good category. Therefore, the inquiry-based virtual laboratory is worthy of being used as a learning media for high school students.

Keywords: Virtual laboratory, inquiry, chemical-equilibrium, media development.